



# Heknowledgement The UNITEN management would like to extend their gratitude to those who have contributed to the publication of this book.

### AUGMENTED REALITY

This book features a whole new experience of Augmented Reality that can be viewed by users on smartphone.

Please download an android application on your smartphone or tablet. Search for "uniten20" from Google Play Store.

Point your smartphone camera at any of the official UNITEN's 20th Year Anniversary logo, such as the one below, and enjoy a glimpse of UNITEN in Augmented Reality.

### 1997 - 201

CELEBRATING THE PAST IGNITING THE FUTURE







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# Foreword by Vice Chancellor

It gives me an enormous sense of privilege to be the Vice Chancellor of Universiti Tenaga Nasional (UNITEN) as it celebrates its 20th year anniversary. We have stayed true to the core values envisioned by our founders and have so far overcome the challenges and reaped the fruits of success. We have also been able to sustain the level of vigour and ambition as we tirelessly uphold our impeccable teaching and research standards in our quest to serve the nation and the region in the areas of educational, social, cultural and environmental development.

UNITEN is a higher learning institution with our own unique niche and character. As among the nation's first Government-Linked Universities, we have showcased our forte in the fields of engineering, information technology, business and accounting. The success of our graduates and faculty bears testament to the accomplishment of our duty to materialise the nation's vision of creating a better Malaysia. The future of this educational establishment is simply very exciting and with the carefully laid out strategic plan, we are striving forward with greater enthusiasm, drive and purpose.

However, in our quest to move forward and create our own destiny, we should never forget the past milestones that led us to our success today. The publication of this commemorative book is our effort to share with you the defining moments over the past two decades that UNITEN have memorably left on the educational landscape of the country.

I sincerely hope that this book will shed light on how far UNITEN have progressed from its early years into becoming a premier higher education establishment.

Thank you

DATO' PROF. IR. DR. KAMAL NASHARUDDIN MUSTAPHA Vice Chancellor Universiti Tenaga Nasional





### HISTORY OF RAPID GROWTH

ith the proclamation of Vision 2020, Tenaga Nasional Berhad (TNB) felt that there was a great necessity for a revision of what top notch human capital development is, specifically in the areas of engineering and management and its social obligation towards nation building. Therefore in 1994, the top man at TNB at the time, Tan Sri Dato' (Dr.) Ani Arope envisioned that Institut Latihan Sultan Ahmad Shah (ILSAS), the training arm of TNB, would be upgraded to Institut Kejuruteraan Teknologi Tenaga Nasional (IKATAN). Consequently, personnel training and development were then increased to diploma, bachelors and masters levels. One of the approaches utilised to meet those ends was the running of twinning programmes with world renowned higher learning institutions such as Indiana University-Purdue University Indianapolis (IUPUI), Ohio University, Lincoln University and Universiti Malaya.











In the late 1990s, however, this region was seriously affected by the Asian financial crisis. Due to the austerity measures taken to soften the financial blow to the country, this unfortunate event led to the government's decision to scale down on the number of scholarships given out to outstanding students intending to pursue their higher education in top British and American universities. This, in turn, resulted in a shortage of available places in public universities.



Tan Sri Dato' (Dr.) Ani Arope was instrumental in transforming ILSAS to fKATAN



Tan Sri Dr. Ir. Ahmad Tajuddin Ali, Executive Chairman of TNB accepting the invitation by Minister of Education, Dato' Sri Mohd. Najib Tun Abdul Razak for TNB to set up a private university, 1996

To overcome this, the then Minister of Education, Dato' Sri Mohd. Najib Tun Abdul Razak, invited TNB and two other government-linked companies to set up their own private universities. TNB duly excepted the challenge and in 1997, IKATAN was upgraded to Universiti Tenaga Nasional to become one of the first privately funded higher learning institution in the country. And it has never looked back since.







UNITEN Management Team, 2000



UNITEN Convocation, 1999

## The Founding Fathers of UNITEN

Jenaga Nasional Berhad (or in the early days known as the Central Electricity Board (CEB)) has always been committed to the betterment of education in Malaysia. Excellent students were sponsored to pursue their degrees in overseas universities who then serve the company upon the completion of their studies.

Under the leadership of Tan Sri Dato' (Dr.) Ir. Abu Zarim Omar, the National Electricity Board's (NEB), vision of establishing an institution of higher learning to train future corporate leaders was translated into reality. In 1976. the Institut Latihan Sultan Ahmad Shah (ILSAS) was set up for the development of the staff potential and intellectual capital. The main purpose of ILSAS was to be the in-house training centre for NEB and to provide manpower training to fulfil the nation's industrial needs.

In 1994, Tan Sri Dato' (Dr.) Ani Arope, envisioned something greater for ILSAS. He was the driving force behind the upgrading of ILSAS to Institut Kejuruteraan Teknologi Tenaga Nasional (IKATAN). He was instrumental in establishing twinning degree programmes between IKATAN, Lincoln University, New Zealand, IUPUI and Ohio University, USA and University Malaya.

The Asian financial crisis in the late 1990's forced the government to reduce the number of scholarships for students to be sent overseas. The three governmentlinked companies namely TNB, Telekom and Petronas, were invited in 1996 to set up their own private universities. Tan Sri Dr. Ir. Ahmad Tajuddin Ali who then was the Executive Chairman of TNB played an important role in accepting the invitation and coming up with a plan to face the challenge. He was also instrumental in coming up with the name Universiti Tenaga Nasional or UNITEN and the infrastructure development of the campus.



Tan Sri Dr. Ir. Ahmad Tajuddin Ali













Official opening ceremony of UNITEN by the Prime Minister of Malaysia, Tun Dr. Mahathir Mohamad in June 2000

### RISING TO THE CHALLENGE

The UNITEN Putrajaya campus, in effect, began to take shape in 1995. Involving three stages of development and construction covering an area of 483 acres, it was the beginning of a quest to fulfil the hopes of a nation. Its close proximity to the Multimedia Super Corridor (MSC) and the federal administrative centre Putrajaya simply added to UNITEN's air of auspiciousness. According to Dr. Tajul Arus bin Noh, the first Rector of UNITEN, "The university's primary mission is to provide quality education and training in engineering, information technology, business and related fields for Malaysians and other nationals."



Dr. Tajul Arus bin Noh, UNITEN 1st Rector (1997 - 2000)

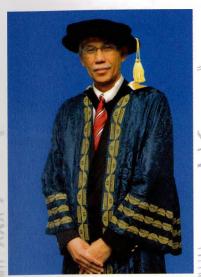
By 1999, student enrolment in this state-of-the-art teaching and learning environment had reached an impressive 5,000. About a year later, on 29 June 2000, the then Prime Minister, Tun Dr. Mahathir Mohamad officially opened the Putrajaya campus. This further spurred the university to reach greater heights which saw it move from strength to strength consolidating its stature as a university of choice. That same year also saw the first intake of students in UNITEN's very own bachelor's degree programme.



First intake of students 1997







Dato' Prof. Ir. Dr. Zainul Abidin Md. Shariff Vice Chancellor UNITEN (2001 ⊭ 2006)

In 2001, Dato' Prof. Ir. Dr. Zainul Abidin Md. Shariff took over the duties of running the university from Dr. Tajul Arus bin Noh. The new Vice Chancellor served the university with distinction until his retirement in 2006.

In the same year, UNITEN reached another milestone with the development of a branch campus. On 4 May 2001, Tun Dr. Mahathir Mohamad officially opened the branch campus in Bandar Muadzam Shah, Pahang Darul Makmur. The sister campus was UNITEN's way of reaching out to non-urban masses in providing highly sought after and quality tertiary education. His Royal Highness The Sultan of Pahang, Sultan Haji Ahmad Shah, graciously proclaimed the campus as Kampus Sultan Haji Ahmad Shah (KSHAS) in 2003. Until today, KSHAS remains as one of the most renowned centres in the region for business and accounting programmes.



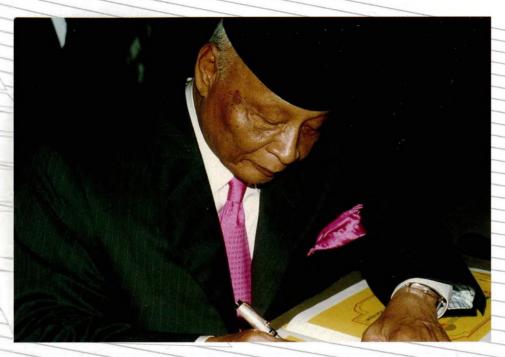
Launching of UNITEN Muadzam Shah Campus, 4 May 2001







Launching of UNITEN Muadzam Shah Campus, 4 May 2001





Proclamation of the Muadzam Shah Campus by DYMM Sultan Pahang, Sultan Haji Ahmad Shah in 2003







The conferment of His Excellency, Tun Dato' Seri Utama (Dr.) Abdul Rahman Abbas, Yang Dipertua Negeri Pulau Pinang as UNITEN's Chancellor, 2005



Tan Sri Leo Moggie appointed as UNITEN's Pro Chancellor, 2005



Tan Sri Dato' (Dr.) Ir. Abu Zarlm Omar appointed as -UNITEN's Pro Chancellor, 2005



Tan Sri Dr. Ahmad Tajuddin Ali appointed as UNITEN's Pro Chancellor, 2015

His Excellency Tun Dato' Seri Utama (Dr.) Abdul Rahman Abbas, Yang Dipertua Pulau Pinang was proclaimed as UNITEN's Chancellor. In addition, Tan Sri-Leo Moggie and Tan Sri-Dato' (Dr.) Ir. Abu Zarim Omar were appointed as UNITEN's Pro Chancellors.

Dato' Seri Prof. Mashkuri Yaacob took over the helm as Vice Chancellor on 1st January 2007 and continued where his predecessor had left off. One of his goals was to further strengthen the unity among the staff of UNITEN and he achieved it through the use of the term "sahabat" (companion) when staff address one another, regardless of position or designation.

Another significant occasion took place in 2005 when The incumbent Vice Chancellor, Dato Prof. Ir. Dr. Kamal Nasharuddin Mustapha took office on 5 May 2015 and immediately set out to take UNITEN to greater heights. He initiated the drive to transform the campus into a vibrant hive of scholarly and social activities while being "green" at the same time. In the same year, Tan Sri Dr. Ahmad Tajuddin Ali was appointed as UNITEN's Pro Chancellor.



Dato' Seri Prof. Mashkuri Yaacob; Vice Chancellor UNITEN (2007 - 2014)



Dato' Prof. Ir. Dr. Kamal Nasharuddin Mustapha, Vice Chancellor UNITEN (2015 - present)



### SOLAR RANGER: OUR ICON

The UNITEN Solar Car project was initiated back in 2003, after UNITEN's winning streak in the World Solar Challenge in Australia under the Solar Cycle category. At that time, it was considered to be a big challenge to design, build, test and race a high performance solar-powered car which was new in Malaysia.

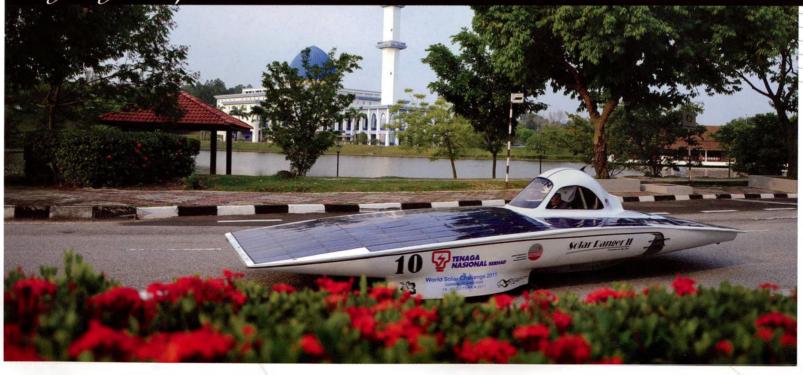
The UNITEN homegrown Solar Rangers, which has become a Malaysian success story, were the brainchild of Mr. Halil Hussain, Assoc. Prof Ismail Said and Dr. Nazaruddin A. Rahman, with the help of students and lecturers from various engineering disciplines. This collaborative work links academic knowledge with applied real-world situations that spurs creativity and innovation.

The consequence of this project nurtured innovative learning with leadership training for Malaysia's next generation of professionals and leaders. Moreover, the project pushes the envelope of knowledge in promoting sustainable technology and at the same time inspiring the community towards a better and sustainable future. The team's continuous hard work and perseverance successfully evolved the first Solar Ranger a.k.a. Solar Ranger 1 (SR1) into Solar Ranger 2 (SR2) and the upcoming Solar Ranger 3 (SR3).

The SR3 will be participating in the upcoming World Solar Challenge which starts in Darwin and finishes in the city of Adelaide in South Australia with an accumulated distance of 3000 km. The success story from SR1 and SR2 has lead UNITEN to declare the Solar Ranger car as the university's official icon effective 15 August 2014.

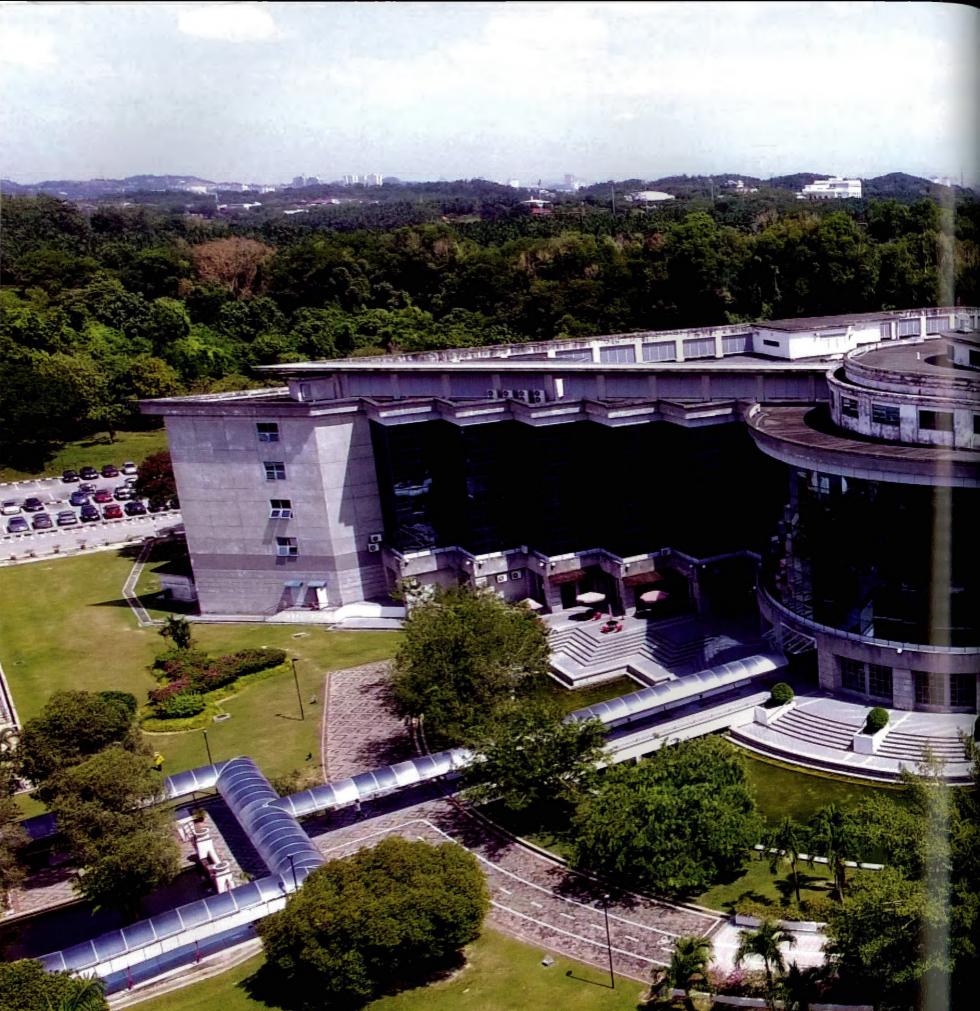


# Highlights of UNITEN Solar Ranger's participation











# **UNITEN TERBILANG**

Sayup mataku memandang

Lambang gedung ilmu yang-terbilang

Di sini kita julang cita-cita berjuang

Untuk mencapai matlamat cemerlang

Tegak gagah di Malaysia

Dengan warga yang berbilang bangsa

Di sini kita julang cita-cita berjaya

Cita yang mencapai kelas dunia

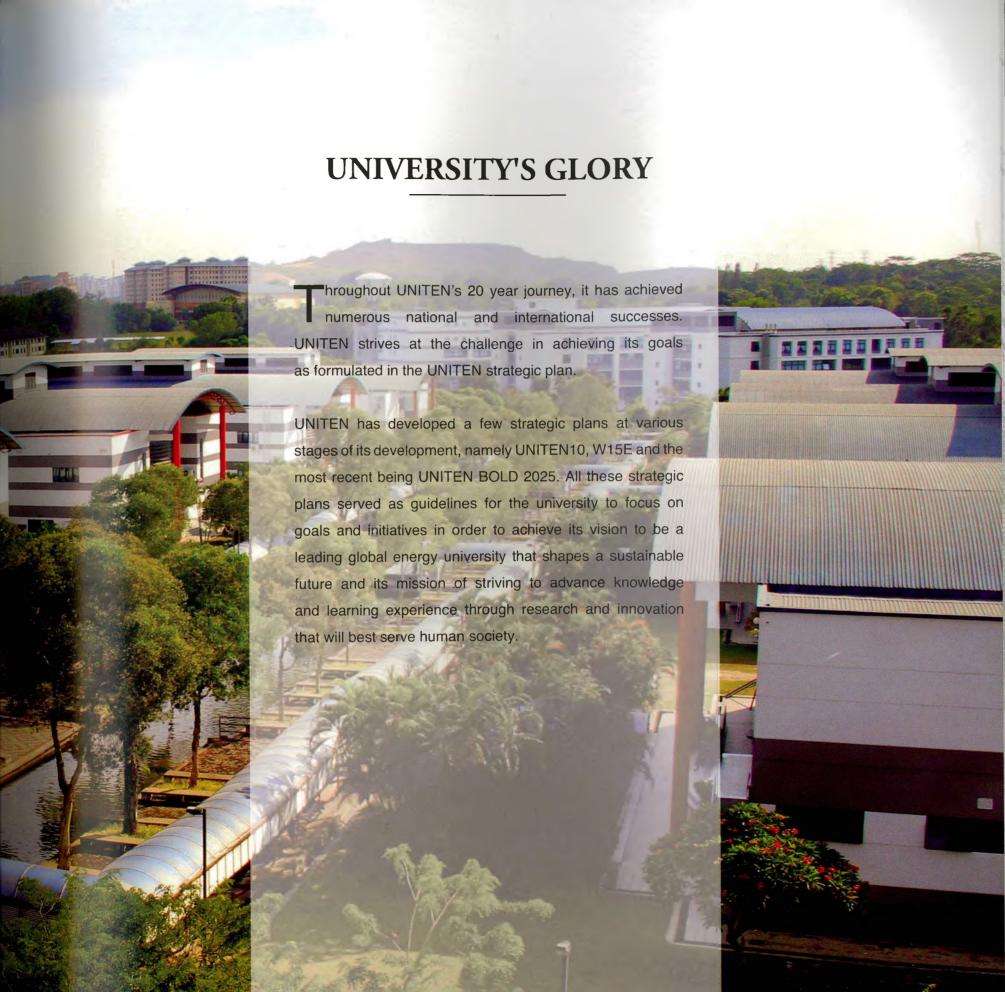
Kan ku bawa obor menyala
Ke seluruh tanah melata
UNITEN berupaya menjana profesional
Diiktiraf dunia antarabangsa

UNITEN pusaka tersayang
Kerana jasamu sungguh gemilang
Di sini kita julang cita-cita berjuang
UNITEN gedung ilmu yang terbilang

Composer : Datuk Suhaimi Mohd Zain (Pak Ngah)

Lyrics: Mohd Kamal Abdul Latif Hj. Abu Bakar - UNITEN Staff







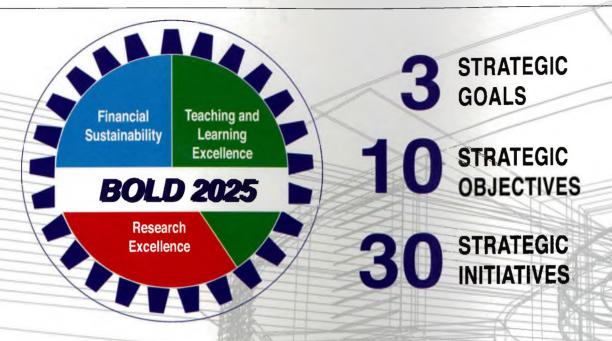
UNITEN 10 was a strategic plan that is in tandem with TNB's Service Excellence 10/10. UNITEN's strategy was to become the premier private university in Malaysia in 2010.



W15E (the acronym for World Class Innovation for Sustainable Energy by the year of 2015) was the 2011-2015 strategic plan that was in line with and inspired by the Pelan Perancangan Strategik Pengajian Tinggi Negara 2011-2015 and TNB's Strategic Plan - Gemilang 2015. W15E charted UNITEN's journey towards becoming a research-led university by 2015 by being at the forefront of research and development in niche areas such as renewable energy and green technology that, in turn, serves to improve teaching and learning, as the basis for UNITEN to achieve the global energy university status by 2030.

# **UNITEN BOLD 2025 Strategic Plan**

"Building Opportunities, Living Dreams 2025" (BOLD2025)



The BOLD 2025 Transformation programme, with the aspiration to be a globally competitive energy focused university was introduced for UNITEN to soar upwards in support of the Malaysian Education Blueprint. The goals of BOLD 2025 Transformation programme are to achieve teaching and learning excellence, achieve research excellence and ensure financial sustainability for the university. This plan is aimed at helping the university generate more income, increase academic productivity, strengthen research, support student development and create an entrepreneurial learning environment. BOLD 2025 is the outcome of of the TNB Education Hub (EduHub) project. The EduHub project was launched in 2015 for UNITEN and ILSAS to develop a strategic plan to synergise and promote both entities whilst improving the standing of both locally, regionally and globally.



UIAC members and UNITEN BOD members during a meeting on 16 July 2012

#### **UNITEN International Advisory Council (UIAC)**

A special advisory body comprising members of academia and industry was set up specifically to provide advice and guidance to the university in its provision as an education and research entity with a view to mould it into a world class university of excellence.







Government Linked Universities (GLU) comprising Universiti Tenaga Nasional (UNITEN), Universiti Kuala Lumpur (UniKL), Multimedia University (MMU) and Universiti Teknologi Petronas (UTP) formalised the strategic partnership through the signing of a Memorandum of Understanding in a ceremony held in Putrajaya. The signing ceremony was witnessed by Minister of Higher Education, Dato' Seri Idris Jusoh, who was present to officiate the Government Linked Universities Management Forum 2016. Also present were Vice Chancellors and Presidents of the 4 universities, top management and delegates of the GLU Management Forum.

In 2005, Malaysia launched the first Islamic QMS (MS 1900) from an Islamic Perspective. UNITEN became the first university in Malaysia to be awarded with MS 1900: 2005, a Malaysian Standard for Quality Management Systems - Requirements from Islamic Perspectives in 2010. UNITEN has passed a new standard for the MS 1900 : 2014, and has been benchmarked for its good practices and value based management.

UNITEN continuously provides high quality through close industry education linkages, innovative and experiential learning. Hence in 2011 and 2013, it was awarded with the rating of Tier 5 (Excellent) for SETARA (Rating System For Malaysian Higher Education) and Tier 5 for D-SETARA (Discipline Based Rating System) in Engineering.



First certified Syariah Compliant University



UNITEN has thus far successfully acquired and retained a commendable array of awards, certifications and recognitions from a variety of quality related initiatives.





Quality Management Excellence Award (QMEA) in Industry Excellence Awards 2009



Prime Minister's Award for Industry Excellence 2009



UNITEN receiving the Prime Minister's Award on 25 March 2010. This award symbolises the recognition of UNITEN's efforts in providing quality and excellent education service to the nation.

UNITEN won the Silver Award for the Employer of Choice 2011 category at the HR Excellence Award 2011. This is UNITEN's first success of its kind in this award series. This award serves as a recognition for UNITEN's efforts in becoming a successful and dynamic people-based organisation.





Malaysia HR Award 2011



Best Employee Award 2008 - Prof. Dr. Izham Zainal Abidin



#### National Level Maulidur Rasul Parade 2015

The UNITEN contingent emerged as winners in the Private Higher Education Institution Category. They also finished runner-up in the Overall Category. UNITEN's participation in the parade is a way of encouraging social activities among its staff to inculcate self-development and engagement with the community.





#### Family Day 1TNB (UNITEN) - The Malaysia Book of Records (MBOR)

As part of the TNB family, UNITEN participated in a group wide family day celebration. TNB received recognition in the Malaysia Book of Records for its Family Day celebration - 1TNB. This event was jointly organised by UNITEN & YTN. The event for UNITEN Putrajaya Campus was held at the Mini Stadium and was officiated by Dato' Prof. Ir. Dr. Ibrahim Hussein, Deputy Vice-Chancellor (Academic and Research), while the celebration in UNITEN Sultan Haji Ahmad Shah, (KSHAS) campus held at the Holiday Villa & Spa, Cherating, Pahang and was officiated by Dato' Prof. Dr. Shaari Mohd Nor, Deputy Vice-Chancellor (Sultan Haji Ahmad Shah Campus).





#### New Sparkle to Partnership - SHINE@UNITEN

UNITEN's corporate social responsibility activities has taken on a brand new shine, in the form of the School Partnership in Harnessing Innovation and Nurturing Excellence, or better known as SHINE@UNITEN. This programme allows the university to get invaluable input from school counsellors and teachers, as well as to get them involved in the overall education development.





#### **Networking Games**

UNITEN won the 1st Runner-up in the Networking Games 2016 held at Kompleks Sukan Dewan Bandaraya, Ipoh.

The Networking games is a yearly sporting event between staff of private universities in Malaysia.





# Our Shining Stars

Since 1998, the university has produced 25,883 graduates. The role of the university's graduates are important towards developing and contributing back to the community and nation. Among them, there are those who have achieved big success, locally and internationally, in their own chosen professions. UNITEN is proud to have them as part of the alumni.



Datuk Shamsul bin Ahmad holds a Bachelor of Science in Mechanical Engineering from North Carolina A & T State University, USA. He obtained a degree in Master of Business Administration from UNITEN in 2006. He is currently the Managing Director and a Board Member of TNB Janamanjung Sdn. Bhd. He is also the Chairman of TNB Western Energy Sdn. Bhd.



Dr. Rezal Khairi bin Ahmad graduated with a degree in Master of Electrical Engineering from UNITEN in 2002 and has held position as an Electronic Engineer in ICT Division of Tenaga Nasional Bhd. He was appointed as Chief Operating Officer of Nano Malaysia in June 2012 and subsequently as Chief Executive Officer in February 2013.



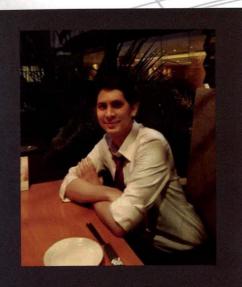
Dato' Haji Nor Azman bin Haji Mufti obtained his Bachelor Engineering (Mechanical) from Strathclyde University UK. He graduated with a degree Master of Engineering Management from UNITEN in 2007. Currently, he is the Vice President of Energy Ventures Division, Tenaga Nasional Berhad. Prior to that, he was the Managing Director of TNB Repair & Maintenance Sdn. Bhd. (REMACO).



Ali Bakhtiar Nizamani graduated in 2003 with a degree in Bachelor of Information Technology. He also obtained his degree in Master of Information Technology in 2005. Ali Bakhtiar Nizamani was also the first International Student at UNITEN. He is currently working with Shell Global Solutions.



Mohd Fairuz bin A Ghani is a graduate of UNITEN in 2007 with a degree in Bachelor of Accounting. After graduation, he obtained a professional degree in ACCA, Finance / Accountancy in 2012. He is currently a manager at Zurich Takaful Berhad.



Mohd Aidil bin Mohd Harith graduated in 2007 with a degree in Bachelor of Information Technology from UNITEN. He currently holds a position as an IT Security Consultant in International Business Machines (IBM). He has also won several awards such as IBM Customer Service Excellence Award 2011 and IBM Award of Distinction 2009.



Dr. Nor Samsiah binti Haji Sani graduated in 2005 with a degree in Bachelor of Information Technology from UNITEN. Currently she works at National University of Malaysia (UKM) as a senior lecturer. Among the awards she has won are gold medal for British Invention Show (BIS) 2007 and Excellent Service Award from Institut Pengurusan Penyelidikan dan Perundingan, Universiti Malaya in 2007.



Dhanaraj Zacharias graduated with a degree in Bachelor of Business Administration Human Resource Management from UNITEN in 2006. He is a member of Malaysia Institute of Human Resources Management (MIHRM) Malaysian Institute of Management (MIM). He currently works at Sunway Resort Hotel and Spa where he leads the organisationwide recruitment & selection, employee relation, safety & health, casual labour.



Nur Alia binti Mohd Sa'ad graduated from UNITEN with a first-class degree in Bachelor of Accounting in 2016. She was sponsored by Khazanah Nasional Berhad to undergo a Graduate-Trainee Chartered Accountant programme (GTCA) for four years in United Kingdom.



Ahmad Zaki Tajuddin bin Ahmad Tajuddin graduated with degrees in Bachelor of Mechanical Engineering and Master of Engineering Management UNITEN in 2002 and 2008 respectively. He is currently the CEO of Valoraz Sdn Bhd which was incorporated in August 2010 and also the Co-Founder and Director of Mobiversa Sdn. Bhd.



Sabraliyev Alibek graduated in 2013 with a degree in Bachelor of Computer Science (System and Networking). He is currently the acting Director for Intervale Kazakhstan LLC.



Dalila Husna Yunardi graduated from UNITEN with a degree in Bachelor of Computer Science (Software Engineering) in 2010. She later obtained a degree in Master of Advanced Software Engineering from Leeds Becket University, United Kingdom. Currently, she holds the position as the Deputy for Staff Service for International Student and Mobility Program, Syiah Kuala University, Indonesia.









PEPAGARIZOTI
ENGINE A TRANSMISSION
HAND OVER
ENGINE EF-VE 660cc &
RM 17,500.00















UNITEN solar cycle team
 participated for the first
 time in the World Solar Cycle
 Challenge (WSCC). We finished
 fourth, out of 20 international
 teams competing in the 1,500km
 race from Alice Springs to
 Adelaide in the Outback of
 Australia. UNITEN team also
 appeared as the first runner-up
 for Category A

### 2005

- The Power Engineering Centre (PEC) was established in April 2005 as part of UNITEN's Strategic Transformation Initiatives to spearhead research and consultancy activities in the field widely considered as niche to UNITEN. PEC aspires to be the point of reference for education, research and development in the field of Power Engineering in Malaysia
- UNITEN organised Student Conference on Research and Development (SCORED 2005)
- UNITEN Tun Dr Mahathir Mohamad Lecture Series was launched on 12 December 2005

## 2001

 UNITEN solar cycle team went on to be 1<sup>st</sup> runner-up in the World Solar Cycle Challenge a competition in 2001



### 2006

- UNITEN organised the Innovation and Design Competition 2006 (INDEC2006)
- UNITEN researchers won 3 gold,
   1 silver and 2 bronze medals in
   the International Innovation
   Invention & Technology
   Exhibition 2006 (ITEX2006)



#### 2003

 UNITEN solar cycle team became the overall champions for the World Solar Cycle Challenge (WSCC) in Australia

- Research Management Centre (RMC) was established on 1 March 2007 to provide a proper mechanism and research management system to the researchers in UNITEN
- UNITEN solar cycle team built its first solar car, the Solar Ranger 1
- UNITEN launched Research and Development Roadmap 2007
- UNITEN organised Electrical Power System Competition 2007 (EPSCom '07)
- UNITEN organised Student Conference on Research and Development (SCORED 2007)



- Flag-off Biodiesel Project: UNITEN to Langkawi (12 February 2008)
- UNITEN started its printed-only journal, Journal of Energy & Environment (JEE), published twice a year
- UNITEN organised Student Conference on Research and Development (SCORED 2008)
- UNITEN researchers secured research grants amounting to RM1,415,008







# g-off Biodiesel Project:

The Institute of Energy Policy and Research (IEPRe) was launched in August 2009 as part of UNITEN's strategic transformation. With the support and cooperation from the Energy Commission of Malaysia and the Ministry of Energy, Green Technology and Water, IEPRe is spearheading research and consultancy activities in energy research

2009

- UNITEN sent its solar car, the Solar Ranger 1 to participate in the World Solar Challenge (WSC). The journey covered was 3,000km from Darwin to Adelaide solely on solar power.
- Management and Accounting started its journal, International Journal of Business Management (IJBM), a doubleblind peer-reviewed journal, published in English twice a year (June and December). This journal has been indexed in MyJurnal by Malaysia Citation Centre (MCC)
- UNITEN started its printed-only journal, electronic Journal of Computer Science and Information Technology (e-JCSIT), published twice a vear
- UNITEN organised The 3<sup>rd</sup> International Conference on Energy and Environment (ICEE 2009)
- UNITEN organised International Seminar on Advances in Renewable Energy Technologies (ISARET 2009)

## 2009

• The Chair in Energy
Economics at UNITEN
is established to provide
leadership and strategic
directions for IEPRe to
spearhead contract research
and energy related programmes.

## 2010

- Perodua Eco Challenge Project 2010
- UNITEN started its journal, International Journal of Electronics, Computer and Communications Technologies (IJECCT), published twice a year
- \*\*JUNITEN organised Student Conference on Research and Development (SCORED 2010)
- UNITEN researchers secured research grants amounting to RM6,092,834

- UNITEN organised 5th International Conference on Information Technology and Multimedia
- UNITEN launched the Solar Ranger 2
- UNITEN obtained a 2 star rating in the Malaysia Research Assessment (MyRA)

- Centre for Renewable Energy (CRE) was promoted as the third Center of Excellence in UNITEN in 2012. The establishment of CRE is to provide a sustainable platform for strategic partnership between the industry and academia into greater achievements in national renewable energy development.
- UNITEN organised the National Energy Security Conference 2012

# 2014

- UNITEN obtained a 4 star rating in Malaysia Research Assessment (MyRA)
- UNITEN organised its first research and innovation exhibition in the campus, UNIREX 2014

# 2015

- Launching of TNB Better
   Brighter Internship Programme
   UNITEN Smart Grid Laboratory
- UNITEN organised a public lecture by Prof Ken Koyama on World Energy Future
- Researchers from UNITEN secured 151 research projects amounting to RM6,117,818.
   We won 14 gold medals in several research and innovation competitions

#### 2013

- Launching of Campus Bus Fleet using B5 Biodiesel (5% Biodiesel + 95% Diesel Blend) and UNITEN Community Waste Cooking Oil Collection Campaign
- UNITEN organised International Conference on Energy and Environment (ICEE 2013)
   Perodua Eco Challenge Project 2013

## 2016

- UNITEN organised research and innovation competition, PERINTIS 2016 with 170 products exhibited
- UNITEN bagged all 3 main awards and emerged as the main winner at the TNB Open Innovation Contest Season 2 (OIC2) held at Pullman Bangsar, 29th September 2016
- The Institute of Energy Policy and Research (IEPRe), UNITEN organised an international forum under the theme "Global Energy Landscape: It's Implication to Malaysia" on the 5<sup>th</sup> and 6th December 2016 at Putrajaya Shangri-La Hotel



- 5 research institutes namely Institute of Power Engineering (IPE), Institute of Energy Policy and Research (IEPRe), Institute of Sustainable Energy (ISE), Institute of Energy Infrastructure (IEI) and Institute of Informatics and Computation in Energy (IICE) were established
- UNITEN organised the International Conference on Advances in Renewable Energy Technologies (ICARET 2016)
- Hand-over of the Inaugural SATREPS Research Output (JICA)
- UNITEN organised the International Forum on Global Energy Landscape (IFGE2016)







# STUDENT EMPOWERMENT

NITEN's student development framework rests upon the philosophy and objectives of education in Malaysia, as enshrined in the Falsafah Pendidikan Negara. The objective is to produce wholesome, complete and resilient graduates who are not only equipped with skills to withstand the challenges and demands



of their respective professions, but more importantly, to generate competent civil community, that is capable of upholding integrity and ethical values in society. Building upon the precepts of the Falsafah Pendidikan Negara, several key elements that are simple enough for the students to associate and relate to, are translated from a given number of skill-sets and values.

# **Building Self-Esteem & Recognition**

Students create an awareness of personal beliefs, values, attitudes, emotions, interests, goals and future aspirations



#### **SUKMA 2016**

Sixteen UNITEN students were involved in Sukan Malaysia (SUKMA) 2016 contributing medals to their respective states in hockey, archery, karate-do and petanque.





#### **UNITEN Hockey Players**

Nur Aisyah Binti Yaacob, a student of Bachelor of Mechanical Engineering (Hons.) represented the Malaysian Women's Hockey Team for the World League Round 1/2015 in India, and the Malaysian Women's Hockey Team Tour of Japan 2016.

Muhammad Firdaus Bin Omar, a student of Diploma of Mechanical Engineering represented Malaysian Men's Hockey Team for the Sultan of Johor Cup 2016, the Australian Hockey League 2016, Japan - New Zealand Tour 2016 and the Sea Games 2015.



UNITEN sent a 56-strong contingent (46 athletes and 10 officials) to the **Sukan Institusi Pengajian Tinggi (SUKIPT)** 2016 held at Universiti Teknologi Malaysia. The athletes bagged one gold, three silvers and one bronze for eleven events they participated in.



Pusat Kecemerlangan Sukan (PKS) UNITEN – KPT Women's Hockey Team emerged as champions of the Malaysian Hockey League (TNBMHL) 2015. The team also managed to secure Player of the Tournament and Best Goalkeeper Awards.

## **MASISWA Games East Zone 2014-2016 Champions**

UNITEN KSHAS were the Overall Champions of the MASISWA Games East Zone 2014-2016. Sukan MASISWA Zon Timur (SUMZOT) is an annual event organised by Majlis Sukan IPTS Malaysia (MASISWA).









The Graduation of the First Batch of UNITEN Diploma in Mechanical Engineering with Persijilan Tahfiz Al-Quran JAKIM-UNITEN 2016





The multiracial dancers are the backbone for the success of Gema Tari UNITEN during the Festival Colours of the World 2011 held at Universiti Teknologi Petronas



The UNITEN Gamelan group performed live during TV3's "Wanita Hari Ini" segment. They were also invited to perform in the "Assalamualaikum" segment on TV AlHijrah, at its main studio in Cyberjaya 2016

# Developing Students' Intellectual and Soft-Skills Potential



E-Genting Programming Competition and E-Genting Bug Hunt 2016

In this competition, the participants from CSIT, UNITEN won 3<sup>rd</sup> place and two participants received consolation awards. The organiser offers internship and job placements for the winners.

initiatives in establishing and enhancing smart partnerships

with TNB and other IT industry leaders.





Students participating in the Soap-Making Workshop which is initiated under the Personal Enrichment and Empowerment Programme (PEEP)



The students were given free workshops to improve on their communication skills through PEEP



**Basic Neurolinguistics** Programming workshops have given a great impact on students' transformation and academic performance



UNITEN was among the 12 universities in Malaysia that was shortlisted to participate in the Perodua Eco-Challenge (2010) organised by Perodua Sdn. Bhd.



# **Social Awareness**

Students will recognise the importance of accountability and integrity and participate in activities that allow them to practice ethical responsibility, community citizenship and public service.





SEALS's Project Paplet entered The Malaysia Book of Records in 2016 for the number of booklets made from recycled paper. This project is part of the green lifestyle awareness campaign on campus





Coral Gardening Propagation Programme was organised by SEALS at Ocean Quest Malaysia, Pulau Kapas, Terengganu in 2016

The students had the opportunity to plant corals on substrates – live rocks collected from the sea – before placing them back onto the seabed

# Globalisation

Pushing personal limits to a world class competition. Students have the opportunity to experience international exposure and be a global citizen.



ENACTUS is an international nonprofit organisation dedicated to inspire students to improve the world through entrepreneurial action.

Formerly known as Student In Free Enterprise UNITEN (SIFE UNITEN), it has established itself as one of the respected and leading SIFE clubs amongst the institutions of higher learning in Malaysia. The club's main objective is to generate human capital with a strong hand on an understanding of business principles, entrepreneurial skills and ethical practices. ENACTUS UNITEN's philosophy has helped its members to be more competent and, with the soft skills acquired, has helped them to be more outstanding and dynamic in terms of leadership and critical thinking.



- 1st runner-up ENACTUS Malaysia National Exposition
- ASTRO Grant Award
- · ENACTUS All Stars Award
- ENACTUS HSBC Young Entrepreneurs Challenge

#### 2013

- 4<sup>th</sup> place at the ENACTUS Malaysia National Exposition
- 1MDB Grant Award
- Champion-of ENACTUS All Stars Award

#### 2014

- 1st runner-up at the ENACTUS Malaysia National Cup
- Champion of Pfizer Special Competition
- ENACTUS All Stars Award
- Champion of Fuji Xerox Poster Sustainability Challenge
- Champion of ENACTUS Malaysia Team Visibility Challenge
- · Best Student Leader Award

#### 2015

- Champion, ENACTUS Malaysia National Cup
- · ENACTUS All Stars Award
- 1st runner-up of Fuji Xerox Poster-Sustainability Challenge
- EMNC 2015 Social Ambassador
- Semi-finalist ENACTUS World Cup 2015 in Johannesburg, South Africa
- Social Innovation Grant by MOSTI through NanoMalaysia Berhad
- Semi-finalist HSBC Malaysia Business Case Competition 2015

- Champion, ENACTUS Malaysia National Cup
- Social Innovation Grant by MOSTI through Nano Malaysia Berhad
- ENACTUS All Star Award-for being the most efficient team
- EMNC 2015 Social Ambassador (Muhammad Ibrahim)
- 3<sup>rd</sup> Place of Opening Round ENACTUS World-Cup 2016, Toronto, Canada



CyberSOCKS 2016

After finishing as one of the top four teams in the preliminary rounds, the CSIT teams was given the honour to represent Malaysia in CyberSOCKS 2016. The team finished as runners-up and one of the team members was selected to participate in a tour of the Fortinet facilities in Canada.

#### **UNITEN Global Exchange & Mobility (360° GEM)**

Internationalisation of tertiary education has made student exchange programmes an essential part of the university learning process. UNITEN, in its effort to internationalise its brand and identity has made a commitment to encourage undergraduate and post-graduate students to be involved in UNITEN Global Exchange & Mobility. Therefore, UNITEN has established lasting partnerships with several universities and institutes of higher learning abroad to conduct student mobility programmes through a formal exchange agreement.















On April 8 2016, a group of volunteers comprising 41 lecturers from the College of Foundation and Diploma Studies (CFDS) UNITEN organised Jaulah Mahabbah, a charity programme, at Pusat Jagaan dan Rawatan Orang-orang Tua Al-Ikhlas in Puchong. Among the activities conducted in the nursing centre were the cleaning of the surrounding areas and spending fruitful time interacting with the senior citizens.





A visit to Rumah Anak Yatim & Miskin Baitu Saidati Khadijah, Gombak was organised in September 2015 that involved 45 volunteers from the Persatuan Pelajar Kelompok Amanah, UNITEN. The activities carried out during the programme included the repainting of the home and motivational sessions with the children.



A programme called 'Sekeping Hati' was organised in October 2015 to help the orphans in Rumah Bakti Nur Syaheera. The programme was attended by students of UNITEN with the cooperation from Institut Professional Baitulmal. The objectives of this programme were to nurture compassion within students towards those who are in need and to instil the spirit of helping others.

On 10 January 2016, the students for the Social Work (ISWB 113) class took part in a one day charity programme "Hope for the Orphans". The students went to Rumah Bakti Alkausar and organised educational and motivational activities for the residents of the home. It was indeed an enriching and unforgettable experience for both parties:







# Turun bantu gelandangan

#### ■ 50 penuntut sertai program Feed The Needs anjuran Enactus UNITEN

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"Feed The Needs" is a programme that was carried out in April 2016 to help the homeless in downtown Kuala Lumpur. The participants of this programme helped to distribute daily necessities and food to the homeless to lighten their burden. The programme was organised by UNITEN ENACTUS Club in which 300 students participated, including students from Universiti Malaysia Pahang (UMP) and Universiti Pendidikan Sultan Idris (UPSI). The objective of the programme was to encourage students to work together to help the community and develop soft skills in line with the requirements of their future careers.



A blood donation campaign was organised by Persatuan Pembimbing Rakan Sebaya (PRS) in 2015. The campaign, a joint effort with Pusat Darah Negara, was aimed at helping the centre to accommodate the high demand for blood supply from government and private hospitals throughout Malaysia.





A community service programme organised by the UNITEN Preparatory Programme for Excellent Students (PPES) was held at the Elephant Conservation Centre in Kuala Gandah, Pahang. This programme was aimed at promoting an awareness on the threat facing this endangered species and the necessary steps taken to increase its numbers in the wild.





Tabung Amanah Zakat UNITEN (TAZU) organised the Grand Iftar programme In conjunction with the month of Ramadhan every year to distribute donation to underprivileged students and staff. The programme aimed to provide assistance for their Hari Raya preparation. In addition, donations were also given to single mothers and orphans.



Hope for Homeless (HOHO) 2015 was a programme involving around 160 members of the Wawasan Club of UNITEN, who distributed food and clothes to the homeless people in Kuala Lumpur on 10 July 2015.







The programme TNB's Bicara Inspirasi Kejayaan 2015 was successfully held at Dewan Seri Sarjana, Universiti Tenaga Nasional. It was a collaboration between TNB's Department of Corporate Affairs and Communications and UNITEN. The programme attracted more than 1,000 participants consisting of students from schools, universities and the community surrounding the UNITEN Putrajaya Campus.



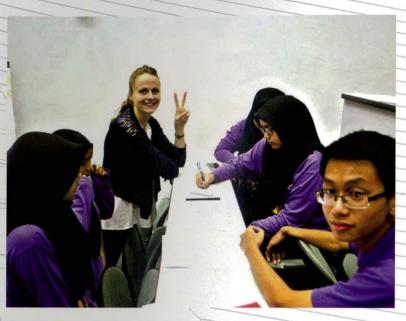


Yayasan Canselor Universiti Tenaga Nasional (YCU) contributed donations to three students of Sekolah Menengah Kebangsaan Cheras Jaya in conjunction with the 14th Academic Excellence Award Ceremony on April 18, 2015. The ceremony was attended by the Deputy Vice-Chancellor of UNITEN, Dato' Prof. Ir. Dr. Ibrahim Hussein and the YCU Director. The Deputy Vice-Chancellor officially opened the ceremony and presented the Academician, Leadership, and Nilam awards to the students. This reward is aimed at motivating the students to maintain their performance in addition to encouraging others to succeed and excel in the future.





Engineers for MAKNA Run was first introduced in 2012. The idea of doing a charity run was mooted when the Institution of Engineers Malaysia-Society of Ingenieur (IEM-SIR) Student Section of Universiti Tenaga Nasional (UNITEN) desired to organise a charity event that can contribute back to the society as part of the university's corporate social responsibility (CSR) initiatives. The proceeds from the event were donated to the Majlis Kanser Nasional (MAKNA). Since then, this event has been organised yearly and has become one of the activities that have gained national attention. SIR was the main organiser of the event and the run was held at the Loop, UNITEN Putrajaya campus in collaboration with the Majlis Kanser Nasional (MAKNA). Every year, more than 1000 participants from all walks of life participated in the run.



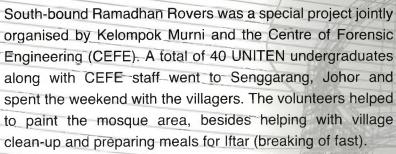


A public speaking workshop with SMKPP 14(1) was conducted on 31 May 2015. It was a project which provided a platform for neighbouring schools to work with UNITEN to groom talents in public speaking. The project involved Form Five students from SMKPP 14(1) and they were exposed to the importance of public speaking skills. By the end of the workshop, several budding speakers were identified and potential leaders who could also assist teachers to groom public speakers among peers at school.

An English Speech Communication Workshop was held on 25 April 2014 at Sek. Men. Kebangsaan Khir Johari, Beranang, Selangor involving two classes of Form One students. The workshop was designed to motivate the young participants to feel comfortable speaking English and develop interest in public speaking. Activities included songs, dramas, impromptu speech training and group discussions. The event was a project brought together by a cohort of ENGB 213 Business English students who aspired to help children from the rural schools to use English more confidently.









On 6 August 2016, The Art and Culture team of CFDS and Kelompok Ilmu collaborated for the first time in the first Art and Culture CSR programme. The students were exposed to the beauty of art and the diversity of Malaysian culture as a means for them to appreciate arts and culture.

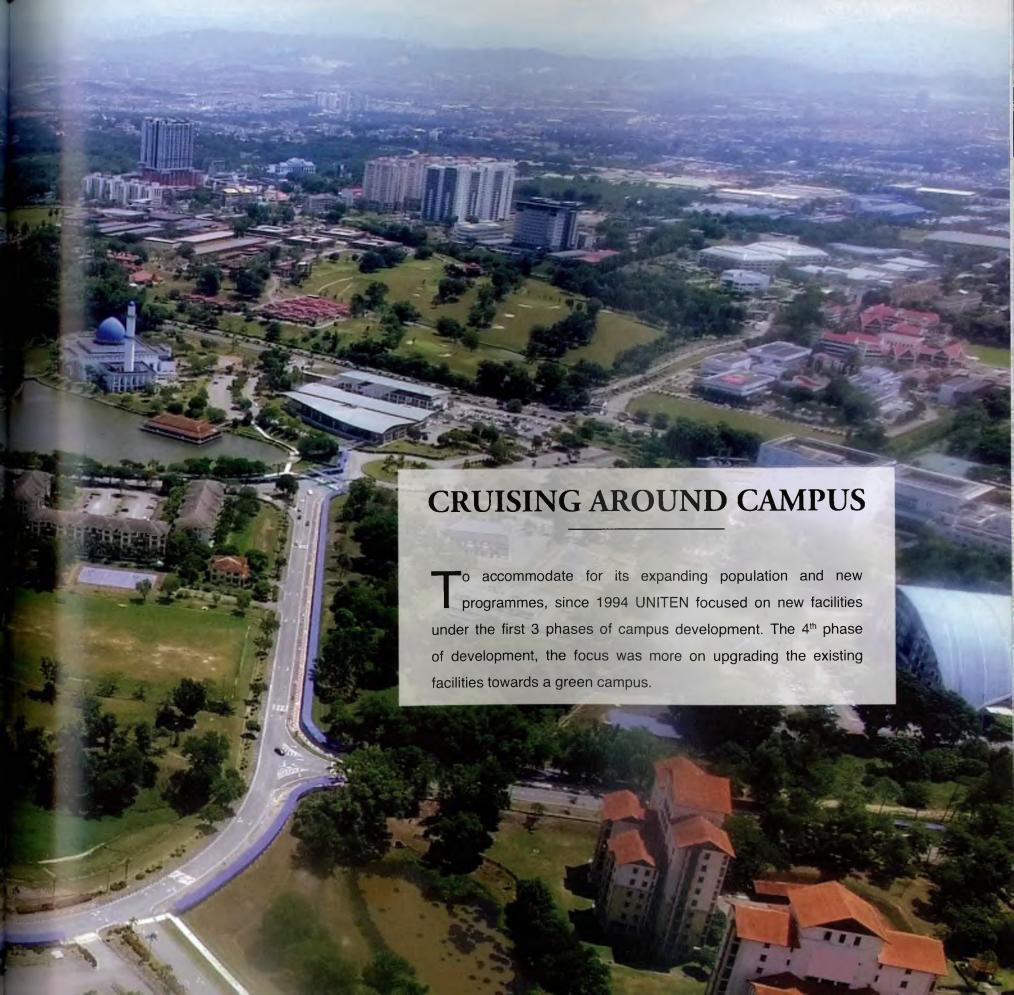






UNITEN, together with Tenaga Nasional Berhad, organised the motivational programme (PINTAR). The objective of this programme was to create awareness among the school students on effective learning techniques. For UNITEN students, this was the opportunity for them to show the exemplary leadership in organising an event.









Phase 1 development focused on the heart of the university, namely the library, the administrative building, the laboratories and the College of Engineering.

The library uses an on-line, real-time and fully integrated system for all its operations. The four-storey building was modeled after the IUPUI University library and integrates all the library resources.







The five-storey Administrative Building, modeled after the IBM Training Centre, serves as the hub of administration activities. Its extensively landscaped surroundings further strengthens the character of the university.

Adjacent to the Administrative Building are eight two-storey buildings inter-linked by a beautifully landscaped pool. These buildings accommodate the civil, mechanical and electrical engineering laboratories. They also house several business units such as Yayasan Tenaga Nasional, IT & Multimedia Services and UNITEN R&D.

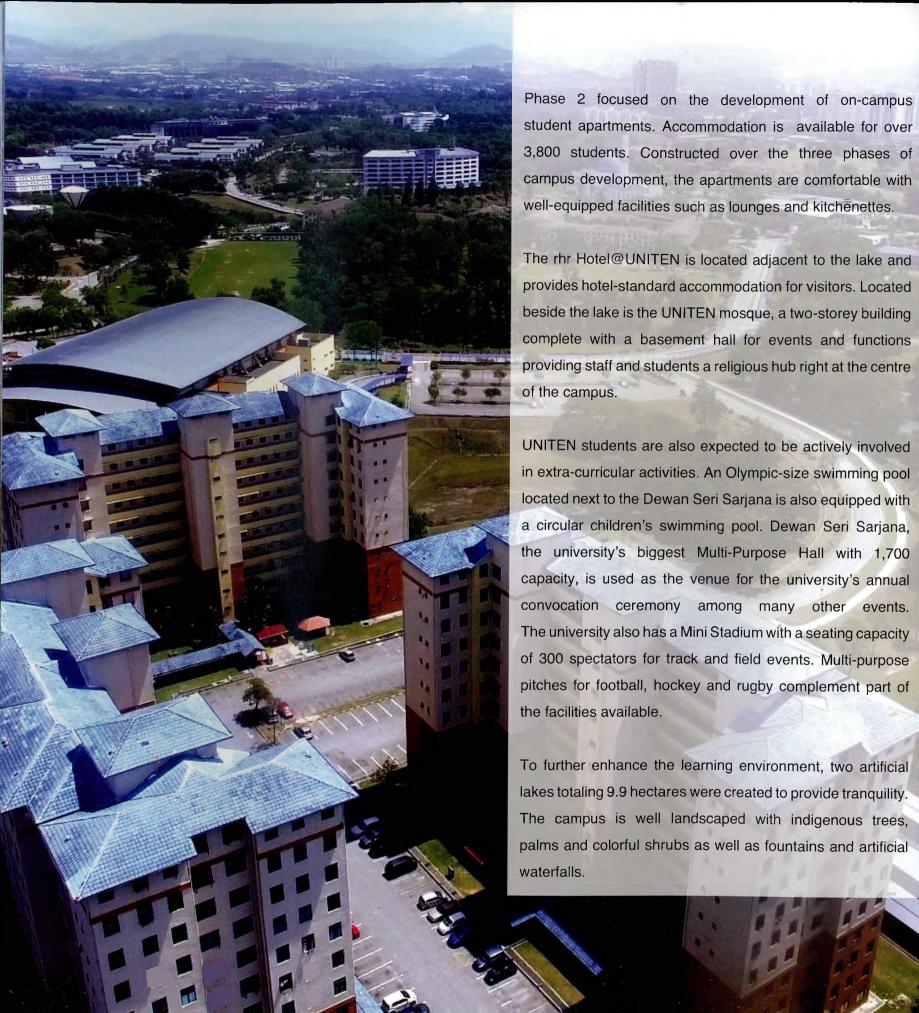
The College of Engineering is the university's flagship college with a four-storey building specifically catered for engineering students complete with laboratories, lecturers' rooms, administrative office and two theatrettes.

















The execution of Phase 3 focused on building a more capacity expansion and conducive working and living environment. In 2005, four blocks (two eleven-storey blocks and two nine-storey blocks) were built as staff quarters in the Putrajaya Campus.

New on-campus student accommodations were also added with the capacity to house 1,200 male students, complete with the sports facilities such as badminton and sepak takraw courts.

The College of Computer Science and Information Technology (CSIT), yet another integral stage of the development of UNITEN, is a six-storey building equipped with computer laboratories, classrooms, lecturers' rooms, administration office and three theatrettes.

On the Muadzam Shah campus (KSHAS), the completion of two new academic blocks, a library, an auditorium, lecture halls and three blocks of student apartments meant that it was ready to accommodate a total of up to 4000 students.





its facilities by the current on-going construction of the Sports Complex and the KSHAS Multi-Purpose Hall.

Currently under the University's BOLD 2020 Initiative, the consistent aim to improve and upgrade UNITEN's facilities is reflected by the building of COE's covered food court. A student activity centre is also being developed at Food Court 2 in an effort to provide a more conducive location for the Student Representative Council, clubs and societies.



The UNITEN's Customer Centre (UCC) was built as an initiative to improve service as well as to ease the students' administrative processes. UCC also acts as a one-stop centre to cater to the students' needs. Equipped with comfortable seating and discussion area, both the KSHAS and Putrajaya centres provide information on programmes, fees, application procedures, accommodation and career path. It is also utilised during the university's Open Day, New Students' Registration Day and for students to check their records and exam tickets.





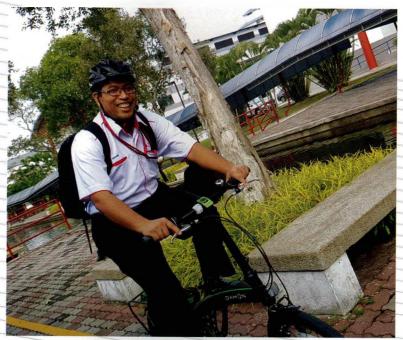


To improve the learning and teaching environment, the upgrading project has also focused on classroom and library improvement throughout the campus. "Free and Easy" areas have also been added to every college building as a space for students to hang out and carry out discussions in between classes.



In line with the university's aim to be the country's first green campus, a fully covered walkway and a cycle path were constructed. The walkway and cycle path connect all the main buildings in UNITEN.

With superb facilities on both its campuses, highly qualified academic staff and well trained management and technical teams under the guidance of a dynamic leader, UNITEN is well positioned to face challenges as it strives to be a leading global energy university that shapes a sustainable future.



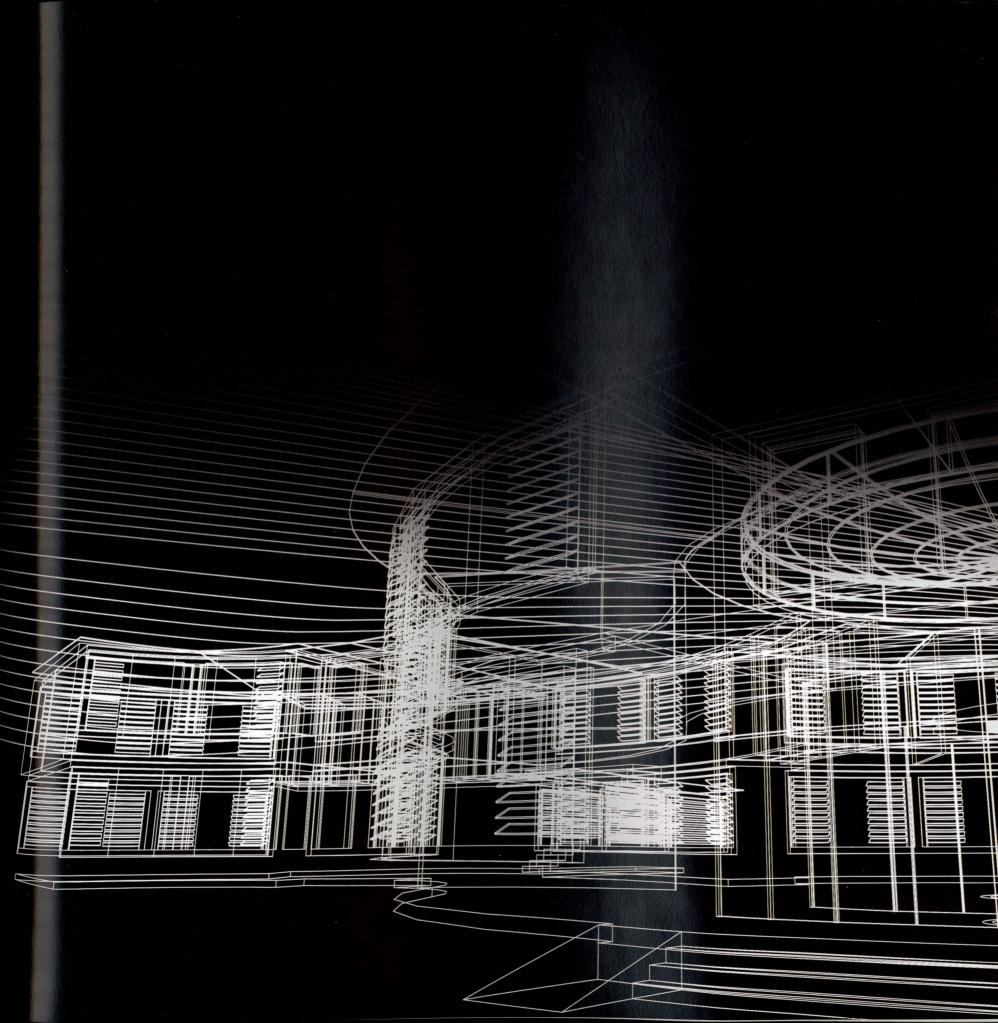




# **MOVING FORWARD**

**UNITEN's Strategic Direction 2010 - 2030** 

In order to achieve its vision of "Becoming a leading global energy university that shapes a sustainable future", efforts are being made to enhance the overall quality of the university including teaching, learning and research to mould it into a world class university of excellence. UNITEN has identified university rankings as a measure of success, as it is commonly used as a benchmark for excellence in education and research. UNITEN has set the target of becoming the Top 200 in QS Asian University Rankings by 2020 and Top 150 in the QS World Rankings by Subject for Electrical & Electronics by 2025 in its BOLD2025 Strategic Plan. On top of this, UNITEN is also committed to being featured in the THE World University Rankings as well.



#### UNITEN's Blended Learning Initiative

The Problem-Based Learning (PBL) approach is a perfect complement to UNITEN's Blended Learning initiative as it promotes active learning during face-to-face contact hours. With Blended Learning and Flipped Teaching, students first gain knowledge input and learning directions through online materials in Moodle, the university's Learning Management System, prior to a classroom meeting. When the students come face-to-face with the lecturers in class, they will be ready for knowledge application through the given PBL tasks. This further promotes the attainment of higher order thinking skills. The use of technology, especially Information & Communication Technologies (ICT) in Blended Learning, complements and enhances the whole experience of PBL.

The first phase of the implementation is to change the traditional classroom teaching to flipped teaching, problem-based learning and other partial blended learning techniques. In future, full adaptive blended learning is envisioned to be implemented in most of the subjects in UNITEN. UNITEN will be one of the top universities with adaptive blended learning technology in Malaysia and regionally.











## **Vibrant Campus**

UNITEN creates exceptional student environment through upgrading facilities, holistic digital environment and intellectually vibrant community to improve students' learning outcomes. It provides students and academics with access to complete online resources for their studies and research work. Modern academic facilities are also designed to maximise interactions among students and with academics in lectures, seminars and project settings in UNITEN.





#### **Smart Campus**

UNITEN has developed a strategy for a Smart Campus project through a consolidated effort by various entities in TNB to translate the Smart City concept within UNITEN's community. The main focus of the project is for UNITEN to improve campus community life through smart technologies towards creating solutions that will enable integration between various applications and the students' lifestyle.

UNITEN's Smart Campus project aims to:

- Provide a low carbon, smart and sustainable campus featuring smart technologies
- Support the National Green Agenda and TNB's sustainability initiatives via innovation
- Provide a prove of concept / demonstration site for TNB Smart City / Campus
- Provide a convenient and healthy lifestyle for campus residents and patrons
- Improve students learning outcomes on Smart
   City, green energy and sustainability using
   Experiential Learning
- Optimise operational cost, increase efficiency and enhance revenue generation



Smart ID application	Student attendance registration Smart mobile Student ID system Student Academic success tracking system Access / door control NFC payment system
Way findings	Mobile UNITEN app for student & public or E-Board     Mobile campus location navigator     Campus bus tracking system
Smart security	Smart student security / emergency notification system     Smart dcor access
Green lifestyles	Enhanced Recycling Practice     Healthy life via walking / cycling



Smartparking management system	Parking lot availability finder     Illegal parking detection and identification
Smart mobility	E-car, E-bicycle, E-scooter PV-based EV charging station E-bus / green bus - using biodiesel Bus tracking system



Energy Efficiency Buildings	Smart street lighting - PV and motion sensor based     DA / Energy management control center     Smart classroom / corridor lighting     Electricity usage reduction using smart card
Smart network	Wireless power transfer     Advanced metering infrastructures     Distribution automation
Smart security system	Integrated security camera monitoring system



Energy Efficiency application	Implementing passive design concept     Harvesting natural light     Using energy-saving lights
Intelligence management system	Smart aircond management system     PV-based electricity source     Smart metering system
Rainwater harvesting	Implementing rainwater harvesting system     Separate water piping system
Green lifestyles	Implementing waste sorting and recycling









Smart Campus Workshop



### **ECONOMIC BOOST:** Bandar Muadzam Shah residents enjoying good progress since campus opened in 2001 Ready to meet IT industry demands Uniten are champs, again Initen tubuh dua tabung NOR AIN MOHAMED RADHI ROMPIN ainradhi@nst.co Uniten's College Bantu nelajar dalam bentuk biasasara, damasiswa serta semarak aktiviti penyelidik ess Management Bridging the present with the past changed the land Muadzam Shah fron town to a bustling or. **Industry-led learning** Uniten lancar Research Roadmap Investing in youth for future ecc Malakoff launches leadership development programm me → MUKA SEPULUH PARI KACA MATA O CONTROLLED TO SERVICE erat All-rounders Trans mempanerian del control de control d has I stude. erate STUDENTS TRUST UNITEN'S COURSES, HANDS-ON TRAINING rewarded orniting shops and **UNITEN** komited Connecting technological knowledge jana transformasi pendidikan tinggi UMT, UNITEN jaguh IPT nation's skilled manpower Uniten hasilkan E-Reads cilitie KSH/ ing Manfaat minyak masak terpakai 07 pelajar pertama roper UTN mulakan pengajian PENDIDIKAN & LATIHAN **Spee** Projek eksplorasi alam semula jadi Uniten Budaya inovasi Delegasi UNITEN ke Jakarta kongsi kepakaran sejak kecil





Coming together is a beginning

Keeping together is progress

Working together is success

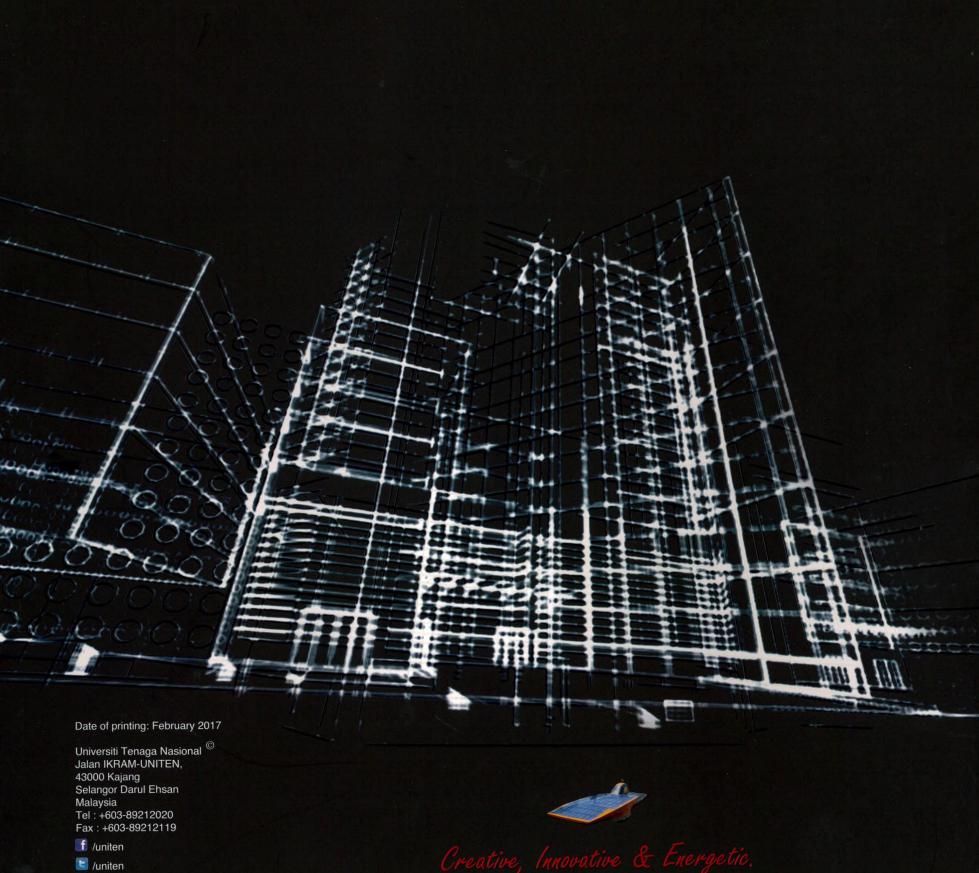
Growth is never by mere chance

It is the result of forces working together









/uniten.official