

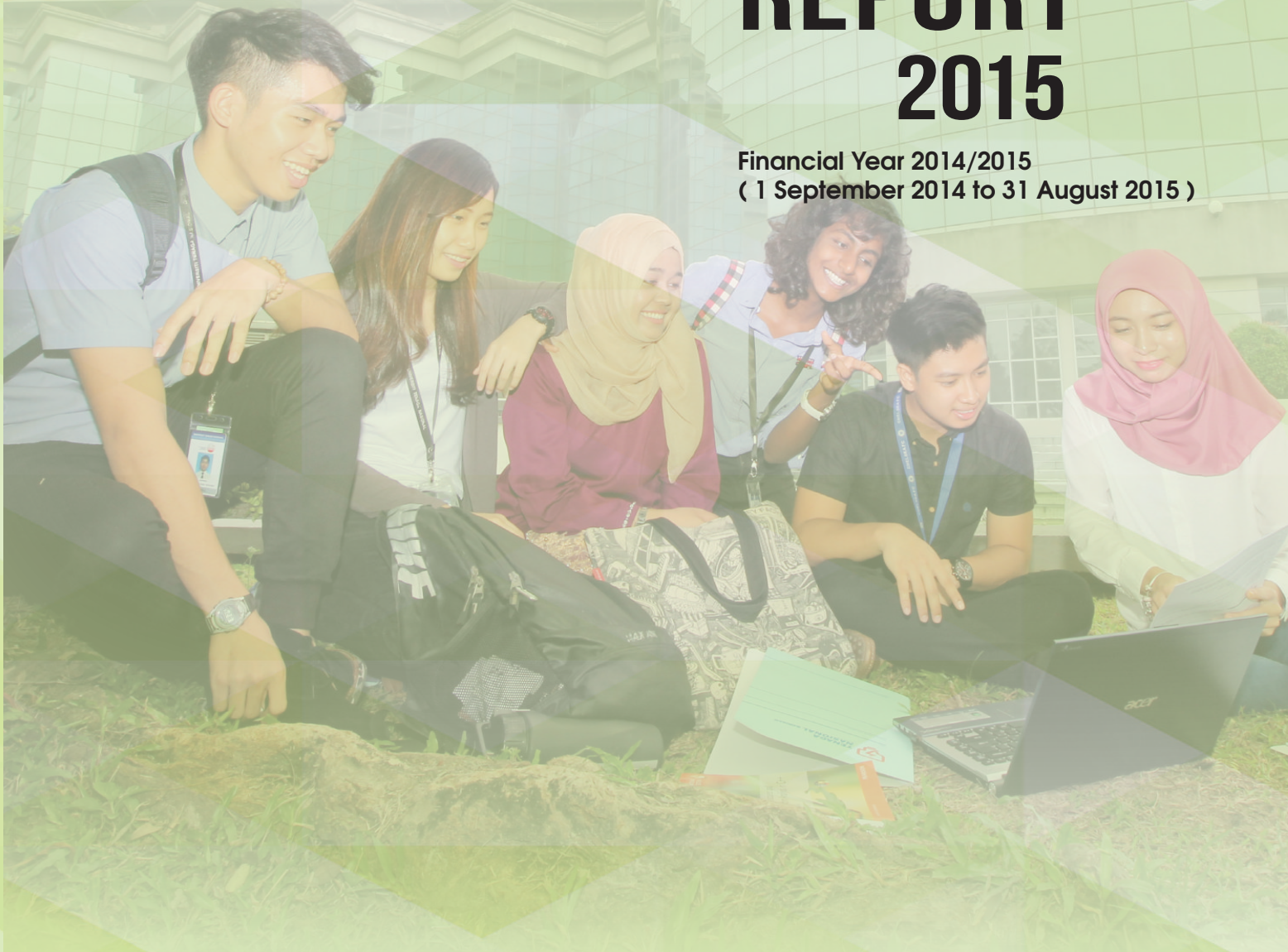
**UNIVERSITI  
TENAGA  
NASIONAL**



*The National Energy University*

# **ANNUAL REPORT 2015**

**Financial Year 2014/2015  
( 1 September 2014 to 31 August 2015 )**



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## **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

## **SHARED VALUES**

- Customer Focus • Integrity
- Caring • Teamwork



# UNIVERSITY IN BRIEF

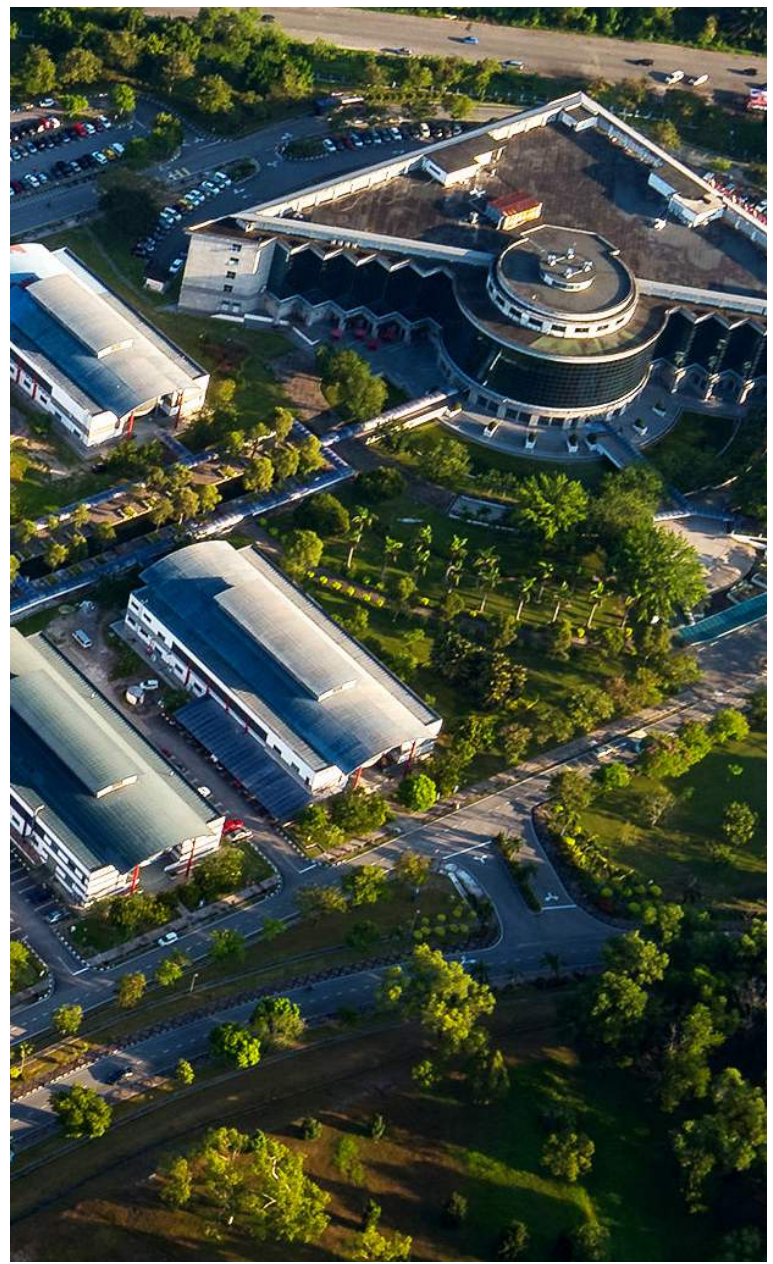
**Universiti Tenaga Nasional (UNITEN) takes pride in its ability to blend and impart almost naturally soft skills with engineering, information technology and business management knowledge to its students. It aims to prepare its graduates to become individuals with professional and intellectual integrity.**

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 faculty. Wholly owned by the utility conglomerate Tenaga Nasional Berhad (TNB), UNITEN aims to emulate its parent company to become a dominant player in its chosen industry.

Grooming able graduates who can hit the ground running once they enter the real world is what UNITEN does best. The learning environment in the university is one that fosters creativity and independence, two premium ingredients in the development of top-class graduates. At the university, the students are constantly pushed to the limits to develop resilience and strength of character. The moulding of the students into wholesome graduates is further enhanced by the courses offered. In this respect, they are designed with expert advice from the industry that are highly relevant, authentic and practical. All the courses offered at UNITEN are certified by the Malaysian Qualifications Agency (MQA).

UNITEN's engineering and accounting courses are recognized by governing bodies such as 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 in UNITEN increases gradually in tandem with the development and demands of the industry. UNITEN's high quality, practical and internationally recognized courses are delivered by a teaching faculty that is made up of consummate and dedicated professionals who are experts in their respective fields. They also have many years of research experience under their belts.





# VICE CHANCELLOR REVIEW

UNITEN's common goal is clear and known by all-to become ASEAN's Leading Energy University by year 2020. While this is our current ultimate goal, I truly believe that we first need to work on strengthening our bond in the organization. It is the camaraderie of multiple talents that will move us forward towards a better future.

As a university, we take pride in producing quality graduates that are sought after by the industry main players, locally and internationally. Having ranked at the top of the pile in talent sourcing with an employability rate of 97.2% in 2015 is certainly something to be proud of. Knowing that our graduates are known to not only have valuable knowledge, but also equipped with soft skills and on-job expertise is something that we emphasize the academics to also focus on.

That being said, I believe that there are more things we need to learn and adapt to, to stay relevant, by ensuring that our curriculum and courses offered are industry relevant and up to date because no business survives over the long term without reinventing itself. The university has proven this by cementing its relationship and network with globally renowned industry players such as Cyient Ltd, Hitachi and several other international universities such as University of Tokyo and Tohoku University from Japan – a testament to UNITEN keeping abreast with global relevance and trends. In 2015 alone, we received more than 30 official visits from industry players from all over the world and signed a number of Memorandum of Understandings and collaborations with several organisations, all in the aim to improve the university and to provide the best experience and offerings to our beloved students.

Being a research-led university, UNITEN walked tall at international research exhibitions such as the International Invention and Innovation Exhibition (ITEX), Malaysia Technology Expo (MTE) and Seoul

International Invention Fair (SIIF). We have won numerous medals and received quite a number of recognitions. This further emphasizes my vision that an organization can only improve when the players are united in working together to achieve a common goal.

UNITEN couldn't have done it without the determination and hard work of all staff. Never be afraid of challenges for we need those challenges to keep on growing. With this, allow me to sincerely congratulate and thank the staff of UNITEN for being such an inspiring team in making UNITEN a great institution.



**Y. Bhg. Prof. Ir. Dr Kamal Nasharuddin Bin Mustapha**

# CORPORATE INFORMATION

## **Chairman**

Y. Bhg. Tan Sri Leo Moggie

## **Members**

- › Y. Bhg. Datuk Seri Ir. Azman Bin Mohd
  
- › Y. Bhg. *Academician* Tan Sri Datuk Ir. Dr. Hj. Ahmad Zaidee Bin Laidin
  
- › Y. Bhg. Dato' Ir. Mohd Yusof Bin Ibrahim, FASc
  
- › Y. Bhg. Dato' Muhammad Razif Bin Abdul Rahman
  
- › Y. Bhg. Dato' Roslina Zainal
  
- › Encik Nazmi Othman
  
- › Y. Bhg. Dato' Prof. Dr. Rujhan Bin Mustafa
  
- › Cik Norina Jamaludin  
*(Alternate Director to Y.Bhg. Dato' Prof. Dr. Rujhan Bin Mustafa)*
  
- › Y. Bhg. Dato' Seri Prof. Mashkuri Bin Yaacob *(Jan 2007-Dec 2014)*
  
- › Y. Bhg. Prof. Ir. Dr. Kamal Nasharuddin Bin Mustapha *(May 2015-present)*

## **Company Secretary**

Cik Sharifah Zulillah Binti Syed Khalil

## **Auditors**

Messrs Pricewaterhouse Coopers

## **Registered Address**

Pejabat Setiausaha Syarikat, Tingkat 2,  
Ibu Pejabat Tenaga Nasional Berhad, No.129,  
Jalan Bangsar, 59200 Kuala Lumpur.

## **Business Address**

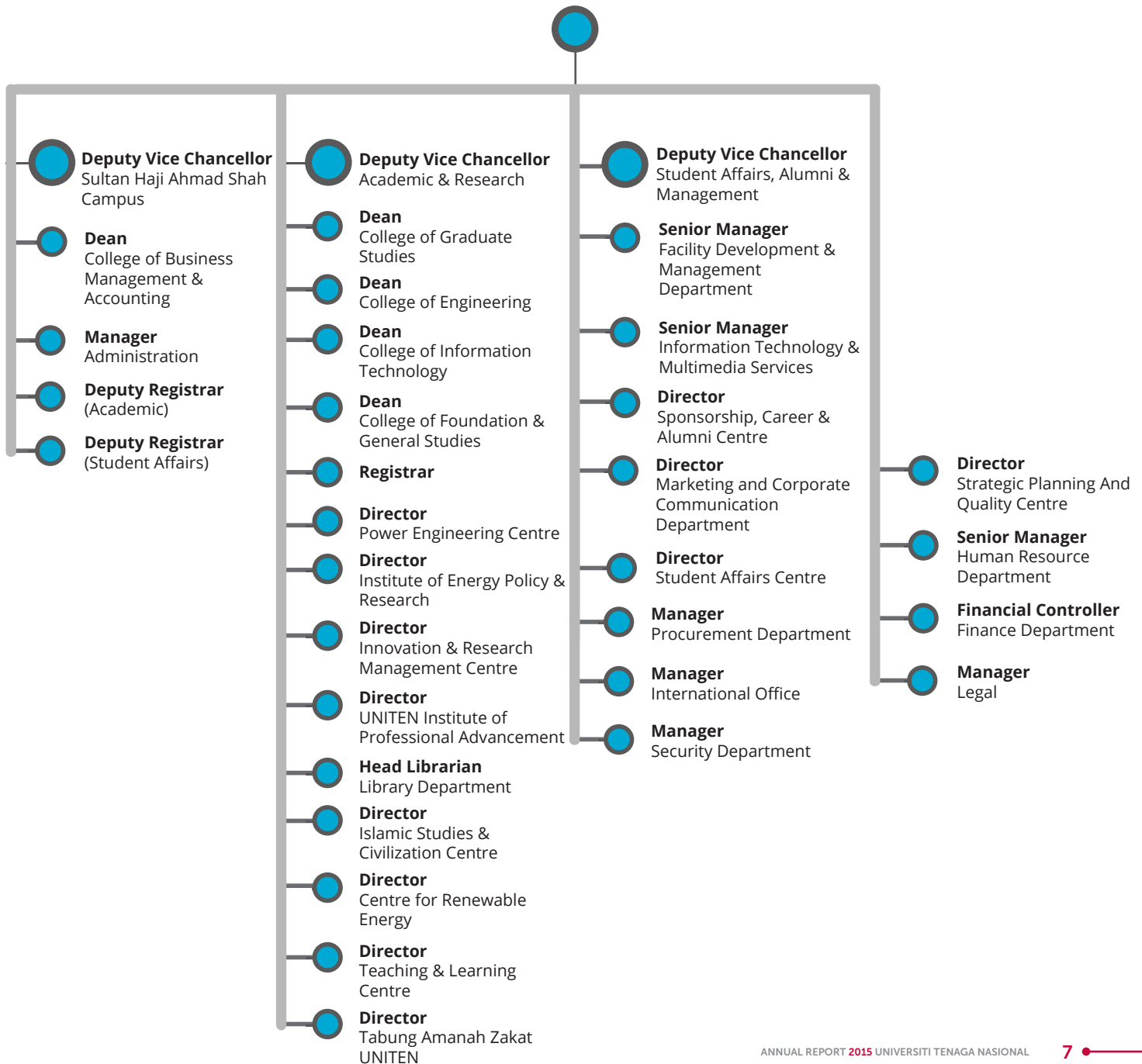
Universiti Tenaga Nasional Sdn. Bhd. ( Co. No. 398494-K)  
Jalan IKRAM-UNITEN 43000 Kajang, Selangor Darul Ehsan.





# ORGANISATION STRUCTURE

## Vice Chancellor



# CHANCELLOR



**Tuan Yang Terutama**  
**Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman Bin Haji Abbas**  
*DMK, SMN, DUPN, SPDK, DP, DMPN, DJN*  
*Yang di-Pertua Negeri Pulau Pinang*



# PRO CHANCELLORS



**Y. Bhg. Tan Sri Leo Moggie**  
*PSM, SSAP, DA, PNBS*



**Y. Bhg. Tan Sri Dr. Ir. Ahmad Tajuddin Ali, FASc**  
*PSM, SIMP, PJN, DPCM, DPMP, SJMK, JMN, AMN*



**Y. Bhg. Tan Sri Dato' (Dr.) Ir. Hj Abdul Zarim Bin Haji Omar**  
*PSM, DSNS*  
*(2005 - Feb 2015)*

# BOARD OF DIRECTORS



Y. Bhg. Tan Sri Leo Moggie



Y. Bhg. Datuk Seri Ir. Azman Bin Mohd



Y. Bhg. Dato' Roslina Zainal



Encik Nazmi Othman



Y. Bhg. Dato' Prof.  
Dr. Rujhan Bin Mustafa





Y. Bhg. *Academician* Tan Sri Datuk  
Ir. Dr Hj. Ahmad Zaidee Bin Laidin



Y. Bhg. Dato' Ir. Mohd. Yusof Bin Ibrahim, FASc



Y. Bhg. Dato' Muhammad Razif  
Bin Abdul Rahman



Cik Norina Jamaludin  
(Alternate Director to  
Y.Bhg. Dato' Prof. Dr. Rujhan Bin Mustafa)



Y. Bhg. Dato' Seri Prof. Mashkuri Bin Yaacob  
(Jan 2007-Dec 2014)



Y. Bhg. Prof. Ir. Dr. Kamal  
Nasharuddin Bin Mustapha  
(May 2015-Present)

# MANAGEMENT COMMITTEE



Above: Assoc. Prof. Dr. Izham Zainal Abidin • En. Faizul Abdul Raof Faiz • Prof. Dr. Mohd Zamri Yusoff  
Y. Bhg. Prof. Ir. Dr. Kamal Nasharuddin Bin Mustapha

Below: Prof. Ir. Dr. Norashidah Md Din • Assoc. Prof. Dr. Bahisham Yunus • Assoc Prof. Dr. Salina Daud



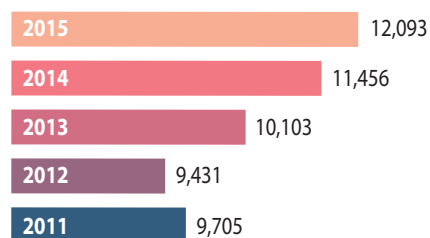
Y. Bhg. Dato' Seri Prof. Mashkuri Bin Yaacob • Y. Bhg. Dato' Prof. Ir. Dr. Ibrahim Hussein  
En. Mohd Ariff Ahmad Tarmizi • Dr. Bakhtiar Alrazi

Assoc. Prof. Dr. Siti Salbiah Binti Mohd Shariff • Pn. Fairuzana Haneem Mohamed Ali



## STUDENT ENROLMENT

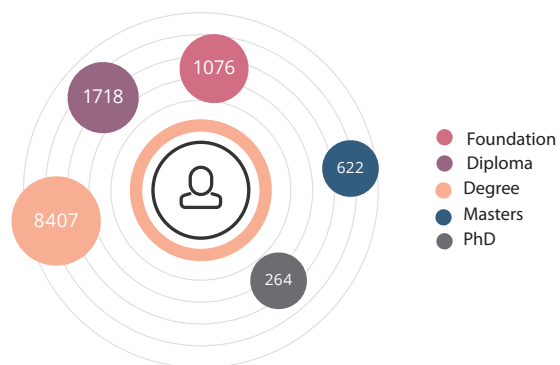
12,093 



TOTAL NO. OF STUDENT ENROLMENT

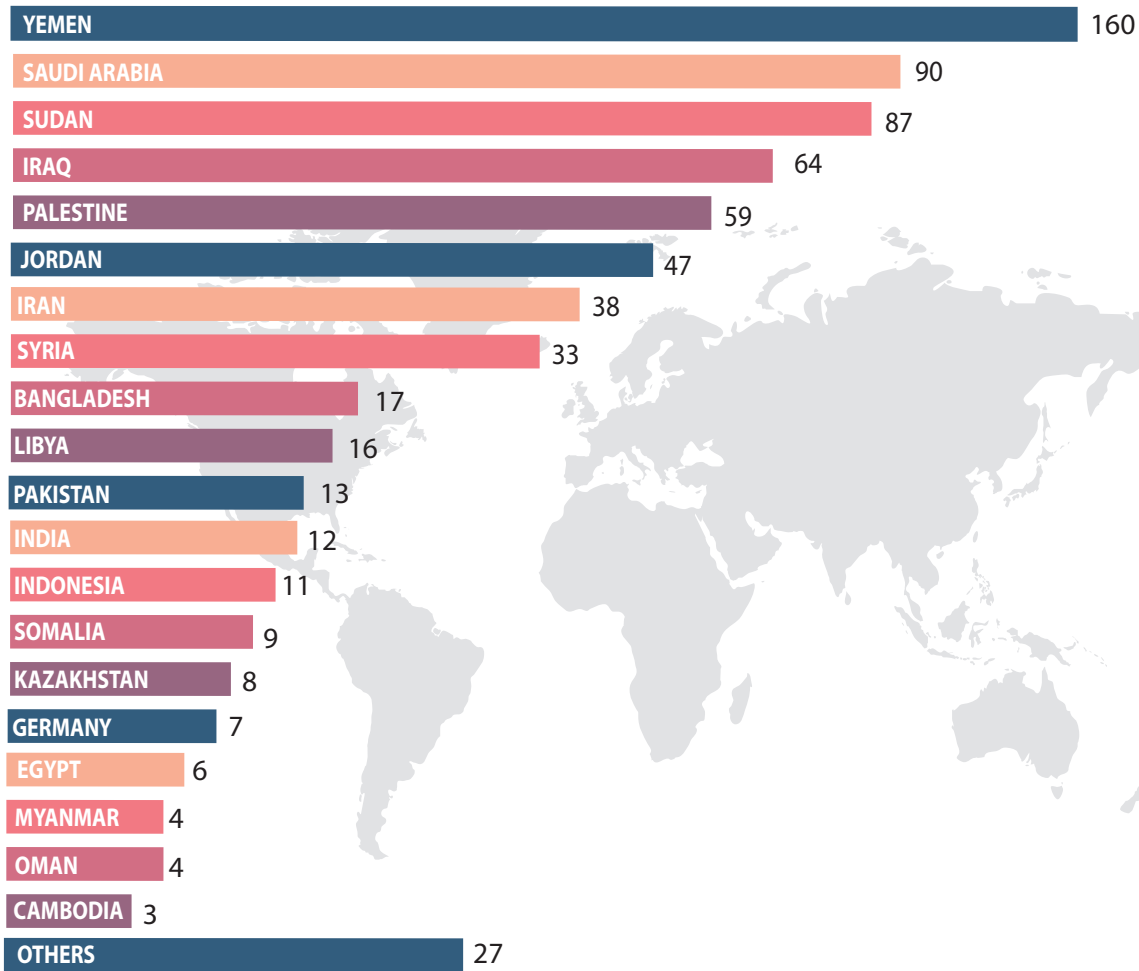


TOTAL NO. OF STUDENT ENROLMENT BY COLLEGES

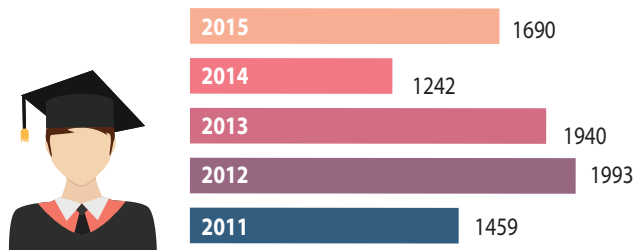


TOTAL NO. OF STUDENTS BY PROGRAMME LEVEL

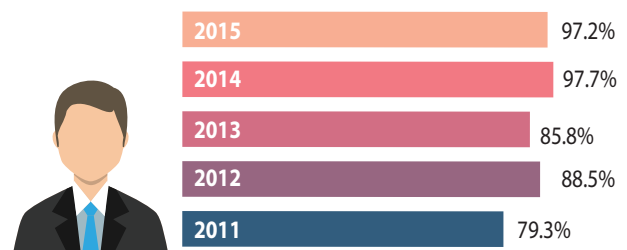
# INTERNATIONAL STUDENT PROFILE



## NUMBER OF GRADUATES



## EMPLOYABILITY RATE



## RESEARCH PROFILE



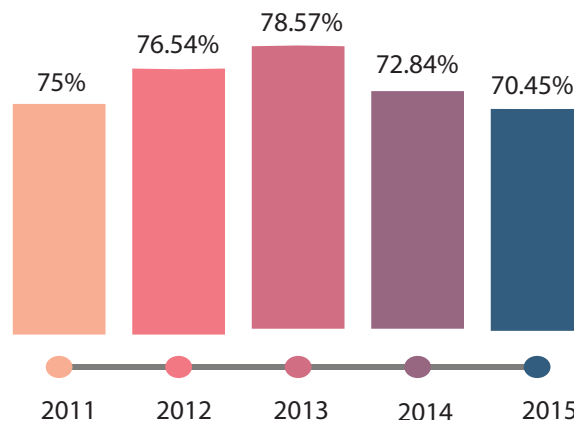
## EMPLOYEE PROFILE

**1,116**   
TOTAL NO. OF STAFF

**567** TECHNICAL & ADMIN

**549** ACADEMICIANS

## CUSTOMER SATISFACTION INDEX







**MEDIA  
HIGHLIGHTS**

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**17**



# MEDIA HIGHLIGHTS



## MALAY PRESS

- Berita Harian
- Harian Metro
- Utusan Malaysia
- Kosmo!
- Sinar Harian

## ENGLISH PRESS

- New Straits Times
- The Star
- The Sun
- The Malay Mail
- The Edge
- Bernama
- The Malaysian Reserve
- Borneo Post

## CHINESE PRESS

- Sin Chew Daily

SEPTEMBER - OCTOBER 2014

**Advertorial 55**

**Pendidikan & Latihan**

# UNITEN raih 4 emas di INPEX

## Cemerlang pada ekspo reka cipta, produk baru disertai 1,500 peserta di AS

Uniten telah berjaya meraih empat pingat emas di pameran Invention and New Product Exposition (INPEX) di Pusat Konektiviti Global di Phoenix, Arizona, Amerika Syarikat (AS) pada Sabtu.

INPEX pameran pertandingan ciptaan terbesar di AS membolehkan para peniaga, penganjur, penyelenggara dan wakil media menghadiri pameran ini. INPEX memberi peluang kepada peniaga untuk mempromosikan produk mereka kepada pembeli. Prof. Berakatu Ir. Dr. Farhan dan pasukanya telah meraih empat pingat emas dalam kategori Inovasi, Produk Baru dan Produk Inovasi. Uniten telah meraih empat pingat emas dalam kategori Inovasi, Produk Baru dan Produk Inovasi.

## EXCELLENCE IN EDUCATION



The Universiti Tenaga Nasional researchers at the University of Pittsburgh to attend the Invention and New Product Exposition (Inpep).

# Uniten bags four golds at US expo

Four researchers from Universiti Tenaga Nasional (Uniten) walked away with four Gold Medals at the Invention and New Product Exposition (Inpep) held in the United States.

Inpep is America's largest invention trade show and provides a forum for inventors to exhibit their inventions and attempt to contact companies interested in licensing, marketing or manufacturing their products. The 29th Invention Show was held from June 17 to June 20 at the David L. Lawrence Convention Center in Pittsburgh, Pennsylvania.

The researchers are all from the College of Engineering. Associate Professor Ir. Dr. Farhan Mohd Sidek and her team bagged a gold medal for the product GENUS – Integrated Green Technology for Sustainable Infrastructure.

GENUS is an innovative green technology tool to enhance and fasten the process of decision-making of water resource managers to design green infrastructure and protect the environment.

The automated expert-level judgment by GENUS provides comprehensive stormwater BMP measures to achieve maximum ecological potential.

The second gold medal was won by Hadayah Binti and her team for inventing INSPIRE – Interactive dam safety decision support tools.

INSPIRE provides an integrated early-warning decision process through an interactive system to provide adequate warning time to allow safe evacuation of downstream communities at risk.

Thirdly, Nor Hazvani Nor Khalid and her team

won a gold medal for the Excellent Real-time In-situ Slope Monitoring System, or ERMIS.

This system has been designed to function as a data collector, keeper and analyser to provide quick information on slope movement at every transmission tower owned by Tenaga Nasional Bhd in real-time.

Dr. Fathoni and his team won the fourth gold medal for the invention VEAS – Value Engineering Advisory System for Building Construction.

VEAS is a cloud-based advisory system. It provides complete process of cost-saving and cost-optimisation steps for building design and construction. The Function Analysis System Technique with FAST Diagram, Risk Analysis and Life Cycle Cost Analysis for each selected components and sub-components are incorporated into the system. Most importantly, all data are kept in cloud storage. Whenever there is an internet connection, users can access and share analyses, results and reports among the Value Engineering team.

With these four Gold Medals, Uniten has mapped itself globally and proved that its products are internationally recognised. The 2014 edition of Inpep attracted around 1,500 inventors from the US, Canada, Australia, Japan, China, Malaysia, Romania, Portugal, Saudi Arabia, Egypt, the United Arab Emirates, Poland, Britain, Singapore, Iran, Turkey and other countries.

For more information on Uniten, visit [www.uniten.edu.my](http://www.uniten.edu.my)



Malaysia perlu ramai tenaga mahir menjelang 2020

## Remaja mahir diutamakan

Malaysia 2020 Muzium, sebuah program latihan kejuruteraan untuk menghasilkan 600 peratus tenaga mahir menjelang tahun 2020, diwujudkan pada Sabtu. Program ini bertujuan menghasilkan 600 peratus tenaga mahir menjelang tahun 2020. Program ini bertujuan menghasilkan 600 peratus tenaga mahir menjelang tahun 2020.

# Malaysia perlu tambah tenaga mahir

Rompin: Malaysia masih memerlukan ramai tenaga kerja mahir untuk menjadi negara maju menjelang tahun 2020.

Timbalan Menteri di Jabatan Perdana Menteri, Datuk Razali Ibrahim, berkata ketika ini, peratusan tenaga kerja mahir di Malaysia hanya kira-kira 23 peratus, jauh berbanding 60 peratus yang ditetapkan untuk capai status negara maju.

Beliau berkata, kerajaan menerusi semua agensi dan jabatannya akan berkolaborasi bagi meningkatkan pemahaman kepada ibu bapa mengenai perkara itu, termasuk pentingnya bidang kemahiran. "Ibu bapa perlu faham bahawa jika anaknya minat bidang vokasional, teknikal dan kemahiran lain bagi sokongan untuk mereka teruskan pengajian.

"Bidang kemahiran, teknikal dan vokasional bukan lagi untuk mereka yang gagal dalam akademik kerana mereka adalah generasi tenaga kerja mahir yang diperlukan negara," katanya pada sidang media selepas merasmikan Pameran Kerjaya Berasaskan Sektor anjuran bersama Talent Corporation dan Universiti Tenaga Nasional (UNITEN), Kampus Sultan Haji Ahmad Shah di Muadzam Shah dekat sini, semalam.

## Cungkil bakat yang baharu sukan petanque

**MAHAZAM SHAH** Bakal-bakat baharu dalam bidang sukan yang perlunya diunggulkan oleh Kementerian Perumahan dan Pembangunan Bandar (KPP) adalah bakat-bakat yang berpotensi untuk menjadi pemain terbaik dalam pertandingan antarabangsa.



Sebuah Nati Canada Universiti Tenaga Nasional (Uniten) Kampus Sultan Haji Ahmad Shah (SHAS) First Di Nati Zon ini terdiri ber satu pusat latihan petanque dalam membuatkan IPT akan baharu yang lebih baik akan membangunkan dan mempromosikan sukan petanque di negara ini.

Pada peserta Pertandingan Petanque (Badminton) 2014 bertaraf sedunia yang diadakan di Muadzam Shah.

"Bakal-bakat baharu yang diunggulkan oleh IPT adalah bakat-bakat yang berpotensi untuk menjadi pemain terbaik dalam pertandingan antarabangsa. Untuk mempromosikan sukan petanque di negara ini, IPT akan membangunkan dan mempromosikan sukan petanque di negara ini.

daripada pada 19 Oktober ini bertempat di Gelanggang Petanque, Muadzam Shah, di sini, dengan 10 pasukan petanque yang terdiri daripada pemain-pemain IPT yang mewakili IPT dalam pertandingan antarabangsa.

Mamadzam Shah IPT akan membangunkan dan mempromosikan sukan petanque di negara ini. IPT akan membangunkan dan mempromosikan sukan petanque di negara ini.

Terdapat pertandingan petanque IPT akan membangunkan dan mempromosikan sukan petanque di negara ini. IPT akan membangunkan dan mempromosikan sukan petanque di negara ini.



Uniten tawar pengkhususan keselamatan siber

**PUTRAJAYA 19 Nov.** – Universiti Tenaga Nasional (Uniten) akan menawarkan pengkhususan sains komputer dengan pengkhususan dalam bidang keselamatan siber mulai tahun depan bagi memenuhi permintaan pasaran terhadap lulusan bidang tersebut.



**SITI SALBIAH** menawarkan pengkhususan dalam bidang keselamatan siber.

Beliau berkata, program pengajian tersebut direka bagi membekalkan tenaga yang berkualiti untuk mengisi dan mengawal parti kolegram dalam sistem keselamatan internet, asasi bagi membekalkan tenaga tersebut dipaparkan dengan segera.

"Kursus ini ditawarkan selepas kajian yang dilakukan mengenai keperluan dalam bidang keselamatan siber amat diperlukan kerana internet telah menjadi sebahagian daripada kehidupan manusia, tidak kira untuk tujuan jual beli atau urusan peribatan.

"Buat permulaan, sebanyak 30 penuntut akan diambil untuk mengikuti pengajian ini. Kursus ini akan dikendalikan sepenuhnya oleh tenaga pengajar tempatan pada tahun pertama dan kita turut bekerjasama dengan Cybersecurity Malaysia supaya penuntut didedahkan dengan cabaran terkini dalam bidang keselamatan siber," katanya.

Beliau berkata demikian kepada pemberita selepas menghadiri Persidangan Teknologi Maklumat dan Multimedia Uniten di sini hari ini.

Sempena majlis tersebut, Timbalan Naib Canselor Uniten, Prof. Dr. Kamal Nasaruddin Mustapha turut menyaksikan penerbitan memorandum persefahaman (MoU) antara Uniten dan Universiti Brandenburg dari Jerman.

Siti Salbiah berkata, penawaran program berkenaan sedang menunggu kelulusan daripada Lembaga Pengarah Uniten sebagai pihak universiti memajukan perhubungan kepada Agensi Kelayakan Malaysia (MQA).

Dalam perkembangan lain, beliau berkata, penerbitan MoU antara Uniten dan Universiti Brandenburg akan membolehkan kerjasama lebih erat diwujudkan antara tenaga akademik membekalkan kedua-dua buah universiti.

"Dengan MoU ini, kita juga boleh menjemput pakar keselamatan siber dari Universiti Brandenburg untuk memberi syarahan dan berkongsi pengalaman dengan penuntut di Uniten," katanya.

Developing CEOs of tomorrow

**W**orking with a team is essential for success in the 21st century. A major challenge for students is to develop the skills and mindset to work effectively with others. The University of Technology Malaysia (UTM) is addressing this challenge through its leadership and team-building programs.

UTM's leadership programs focus on developing the soft skills necessary for future CEOs. These include communication, problem-solving, and the ability to work in diverse teams. The university provides a variety of workshops and seminars to help students build these essential skills.

By participating in these programs, students are not only enhancing their personal growth but also preparing themselves for the demands of the modern workplace. The goal is to produce graduates who are not only technically proficient but also capable of leading and inspiring others.

**Berhibur sambil beramal DI YOUTHFEST 2014**

**M**any of them were enthusiastically involved in the group projects at 15 locations, including Perak, Kedah, Terengganu, Pahang, Sabah, Perlis and Johor.

Really said the organizers, between 18 and 40, had the option of doing activities of their choice, such as planting trees, painting murals with local artists or beach clean-up.

Kalau, Perdana Menteri Datang Menteri Besar Datuk J. Lingga Raju, who officiated the programme launch, said the effort was the first of its kind in the country.

"Saya juga amat gembira yang dapat melihat projek ini dijalankan dengan berkesan dan berkesan," katanya.

The new YNF programme is set to take place in June next year and will take place consecutively after every six months.

**UNITEN, Kalkitech hasil produk cekap tenaga**

**K**erjasama Universiti Tenaga Nasional (UNITEN) dengan Kalki Communication Technology Sdn Bhd (Kalkitech) telah menghasilkan pelbagai teknologi baharu untuk meningkatkan sistem penyediaan bekalan elektrik di negara ini.

Naib Canselor UNITEN, Prof. Dr. Kamal Nasaruddin Mustapha berkata kerjasama dijalin dengan syarikat berpangkalan di India itu bagi memajukan projek-projek mereka dalam integrasi sistem.

Katanya, UNITEN pula membantu Kalkitech membangunkan projek inovatif termasuk sistem meter pintar yang dapat meningkatkan kecekapan penggunaan tenaga bagi mengahiri pembaziran.

"Teknologi sistem grid pintar ini digunakan secara meluas di negara maju bagi mengawal selia dan menyeliakan pengedaran bekalan tenaga secara automatik, namun keupayaan penyediaan sistem data ciri teknologi yang berbeza adalah cahaya yang perlu ditangani bagi membolehkan kesesuaian pengaturannya untuk pelbagai wilayah.

"Kalkitech mempunyai kepakaran dalam integrasi sistem yang membolehkan pelajar kami mempelajari teknologi grid pintar untuk mengatasi isu-isu seperti bagaimana meningkatkan sistem penyediaan bekalan elektrik secara optimum mengahiri pembaziran tenaga," katanya.

Beliau berkata demikian ketika...

dijumpai selepas majlis penanda-taruhan memperingati penamatannya (MoU) antara UNITEN dan Kalkitech serta UNITEN-Infopower Intelligent Grid (IG) di sini, di sini, di sini.

Prof. Mubashir Yousof, Naib Canselor Kalkitech dan Ketua Pegawai Eksekutifnya, Presahri Gopalakrishnan serta Pengarah Pembangunan Perumahan, Kerjaya dan...

**KALKITECH MEMPUNYAI KEPAKARAN DALAM INTEGRASI SISTEM YANG MEMBOLEHKAN PELAJAR KAMI MEMPelajari TEKNOLOGI GRID PINTAR UNTUK MENGATASI ISU ISU SEKALI GUS BERPOTENSI MENJADI BAKAL JURUTERA"**

Prof Mubashir Yousof, Naib Canselor Kalkitech

**Youths buck trend for mammoth gotong-royong**

**By Lisa Kyra Sharmagan**  
lsharmagan@sunway.com.my

**K**UALA LUMPUR – Unlike their counterparts in other parts of the country, youths here seem to be bucking the trend of participating in mammoth gotong-royong activities.

The University of Technology Malaysia (UTM) has been organising 5,000 youths to pick up rubbish, remove illegal structures and...

"I have always wanted to contribute my time and effort in a productive way but society has not been vibrant and hence to start," she said.

"When I signed up to be part of the programme, I thought it was a great opportunity to sign up and finally become a volunteer."

Human resource executive Azeel Jaha, 30, from Ipoh, was another fine one volunteer who joined hundreds to pick up rubbish, remove illegal structures and...

"I like helping to be part of a positive movement like this. I enjoyed my time experience as a volunteer and look forward to the next."

**Peserta larian amal 'dikejar' zombi**

**PUTRAJAYA:** 1 universiti tenaga nasional (UNITEN) berjaya mengumpul dana sebanyak RM100,000 untuk projek projek sosial melalui larian amal bertema zombie, Zomby The Walking Dead di sini, di sini, di sini.

Peringkat dengan gajay zombi.

Peringkat bersebelahan 'menyelamatkan diri' daripada zombi.

memeriahkan suasana program, terutama apabila mereka dikejar oleh zombi.

"Pemasangan acara untuk sambutan ini berkesan bagi menarik minat peserta program amal dan hasil kerja bertamunya akan dihabiskan bersama Malaysian Rotary Relief Association," katanya.

Program Mijiran Soft Skills Enhancement and Learning Support Association (SEALS) UNITEN ini turut melibatkan banyak program Mijiran dan banyak berkesan dalam pelaksanaannya.

**Youths buck trend for mammoth gotong-royong**

**By Lisa Kyra Sharmagan**  
lsharmagan@sunway.com.my

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"I have always wanted to contribute my time and effort in a productive way but society has not been vibrant and hence to start," she said.

"When I signed up to be part of the programme, I thought it was a great opportunity to sign up and finally become a volunteer."

Human resource executive Azeel Jaha, 30, from Ipoh, was another fine one volunteer who joined hundreds to pick up rubbish, remove illegal structures and...

"I like helping to be part of a positive movement like this. I enjoyed my time experience as a volunteer and look forward to the next."

**UNITEN dinobatkan juara Projek Revive Master 2014**

**Kuala Lumpur:** "Ketepikan perbeza dan bekerjasama sebagai satu keluarga menjadi raman utama berkesan pasukan ini dalam melakukan tugas di sini sehingga akhirnya dinobatkan sebagai juara Projek Revive Master 2014." Kata Saravini Raj Karanagampala, 21, ketua pasukan Seals Associated dari U11 versus Tenaga Nasional (Uniten) semalam.

Projek Revive Master antara Revive berone dari Permatang Sela (Permatang) kali kedua diadakan ini bertujuan memberi peluang kepada penuntut institusi pengajian tinggi memotivalkan kemahiran diri dengan mendedahkan mereka kepada situasi kerja sebenar dan sekaligus mereka dapat bersedia melalui pelaksanaan projek.

Tema projek kali ini difokuskan kepada maraton apabila peserta dikehendaki mengerjakan maraton biasa atau aktiviti yang menekankan kekuatan berurusan dalam tempoh masa diluar. Malah, projek juga bukan saja memupuk semangat kerja berpasukan tetapi juga membolehkan dinamik kerana mereka dikira berdasarkan keuletan kerja dan kreativiti.

Projek bermula sejak Mei lalu dengan 16 pasukan terbahagi menjadi pertandingan bersebaran yang menawarkan hadiah wang tunai pahlawan ribu ringgit. Malah, ia turut pertandingan juga berpertandingan untuk hadiah insentif di Permatang.

"Fasikan kami menambahkan diri penuntut dari pelbagai fakulti dan semesta masing-masing ada kerohanian tersendiri kerana kami banyak mendapat untuk dikongsi."

Namun, kami banyak mengahiri dalam pertandingan kerana yang penting kami mahu projek ini berjaya kerana Setiap ahli pasukan memahiri tugas masing-masing dan itu lakukannya tanpa sebarang masalah. "katanya diteliti selepas pertandingan pemenang dan persembahan hadiah di auditorium Muzium Negara di sini.

Hadiah disampaikan Pengurus Periklanan Komunikasi Permatang, Southwaran Huzairi Sandaran. Sementara itu, Sandharan berkata, projek berkenaan menarik 1,000 pasukan sejak diperkenalkan bagi membolehkan pelajar untuk berkomunikasi lebih cecap dalam kumpulan di samping membuka ruang kepada mereka berkolaborasi diri untuk memajukan projek-projek yang mereka sukai.



**GEBANG Akademik**  
PILIHAN MASA DEPAN ANDA  
LUPUSAN MALAYSIA  
SABTU 17 JANUARI 2015

**Uniten KSHAS jadi 'kampus wifi'**

**06** **GEBANG Akademik**  
PILIHAN MASA DEPAN ANDA  
17 JANUARI 2015

**Sasar Uniten KSHAS pilihan pelajar**

Uniten KSHAS adalah program yang menawarkan pelbagai peluang kepada pelajar Uniten untuk memperkayakan diri mereka dengan kemahiran profesional dan teknikal yang diperlukan dalam dunia pekerjaan.

**Pendidikan & Latihan**

**Harum nama di Bangkok**

PST Hoki UNITEN bawa pulang tiga piala kejohanan

**Tripda Malaysia lantik pelajar kampus sebagai duta**

Uniten telah melantik pelajar-pelajarnya sebagai duta untuk mewakili universiti dalam pelbagai program dan aktiviti.

**TECHFEST is Asia's Largest Science and Technology Festival, first launched 17 years ago at India Institute of Technology Bombay in Fowlai, Mumbai.**

**Uniten wins 'war' in India**

A team from Universiti Tenaga Nasional's Mobile Robotics Club took part in this year's event and won second place in the festival's Robowars Competition with robots that were built in just one month.

**Winners:** (standing, from left) Dinesh, Krubakaran, Chuan Yin, Brehma, Devanitra, Athiqurrahman; (crouching, from left) Kai Lun, Samen, Tek Boon and Mekanathan.



# UNITEN, Cyient kaji teknologi grid pintar

**Penyelidikan bersama tingkat operasi, kongsi kepakaran dua entiti**

oleh Mohd Azly Zahradin

Universiti Tenaga Nasional (UNITEN), sayap penyelidikan Terengganu Nasional (TNS), bekerjasama dengan Cyient (M) Sdn Bhd, untuk melaksanakan penyelidikan bersama mengenai teknologi grid pintar. Kedua-dua entiti ini akan mengkaji teknologi grid pintar untuk meningkatkan operasi dan pemeliharaan sistem tenaga elektrik. Penyelidikan ini akan melibatkan pakar-pakar dari kedua-dua entiti ini. Penyelidikan ini akan dilaksanakan dalam tempoh enam bulan. Penyelidikan ini akan melibatkan pakar-pakar dari kedua-dua entiti ini. Penyelidikan ini akan dilaksanakan dalam tempoh enam bulan.

Menyatakan bahawa UNITEN akan mengkaji teknologi grid pintar untuk meningkatkan operasi dan pemeliharaan sistem tenaga elektrik. Penyelidikan ini akan melibatkan pakar-pakar dari kedua-dua entiti ini.

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# Cyient labur RM100,000 jalin kerjasama dengan Uniten

oleh ZUNADAH ZAHOR



KUALA LUMPUR 30 Feb. - Cyient (M) Sdn Bhd, syarikat penyelidikan dan pembangunan teknologi grid pintar di negara ini, telah melaburkan RM100,000 untuk melaksanakan penyelidikan bersama dengan Uniten. Penyelidikan ini akan dilaksanakan dalam tempoh enam bulan.

# Industry-led learning

Industri-led learning adalah pendekatan pembelajaran yang berpusat kepada industri. Pendekatan ini menekankan kerjasama antara industri dan institusi pendidikan. Pendekatan ini bertujuan untuk meningkatkan kualiti pembelajaran dan memastikan pelajar mempunyai kemahiran yang diperlukan oleh industri.

# UNITEC mendaki puncak kejayaan

UNITEC telah mencapai kejayaan yang signifikan dalam meningkatkan kualiti pembelajaran dan memastikan pelajar mempunyai kemahiran yang diperlukan oleh industri. Kejayaan ini dicapai melalui kerjasama antara industri dan institusi pendidikan.

# Ready to meet IT industry demands

Universiti Tenaga Nasional (UNITEN) telah bersedia untuk memenuhi permintaan industri IT. UNITEN menawarkan program-program yang relevan dengan keperluan industri IT. UNITEN juga bekerjasama dengan industri IT untuk meningkatkan kualiti pembelajaran dan memastikan pelajar mempunyai kemahiran yang diperlukan oleh industri.

# Skuad hoki wanita negara sedia rebut kedudukan dua terbaik di India



Laluan ke Belgium mudah

Skuad hoki wanita negara sedia rebut kedudukan dua terbaik di India. Skuad ini akan berangkat ke Belgium untuk bertanding dalam pertandingan antarabangsa. Skuad ini akan diketuai oleh jurulatih berpengalaman.

# 1000 Graduate 10 per cent

1000 Graduate 10 per cent adalah program yang dilaksanakan oleh UNITEN untuk meningkatkan kualiti pembelajaran dan memastikan pelajar mempunyai kemahiran yang diperlukan oleh industri. Program ini melibatkan kerjasama antara industri dan institusi pendidikan.

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# 08 kademik

PILIHAN MASA DEPANAN

# Peluang kerjaya luas bidang ICT

Industri ICT menawarkan peluang kerjaya yang luas. Pelajar yang mempunyai kemahiran dalam bidang ICT akan mempunyai kelebihan dalam mencari pekerjaan. Pelajar yang mempunyai kemahiran dalam bidang ICT akan mempunyai kelebihan dalam mencari pekerjaan.

# 國能大學軟技能 提升優質專業人才

國能大學軟技能 提升優質專業人才 adalah program yang dilaksanakan oleh UNITEN untuk meningkatkan kualiti pembelajaran dan memastikan pelajar mempunyai kemahiran yang diperlukan oleh industri. Program ini melibatkan kerjasama antara industri dan institusi pendidikan.

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## Rompin dominasi basikal, petanque

**MUADZANSHAH** - Kontinjen Majlis Sukan Daerah (MSD) Rompin mengambil petanque sebagai Tiaru Rumah Sukan Remaja Pahang 2015 yang berlangsung sejak 1 Jun lalu untuk mencapai juara keseluruhan.

Sekelompok 15 orang, enam lelaki dan sembilan anggota berdaya dalam pasukan MSD Rompin sepanjang lima hari pertandingan ini berlangsung di Kompleks Juara diundang oleh MSD Kluang dan MSD Temoleh beranda di tangga ketiga.

Acara yang berdaya menyumbang pingat untuk pasukan MSD Rompin ialah hamba basikal, sepak takraw wanita, petanque dan olahraga manakala tiga atletnya pula mendapat tempat apabila berkesan dalam atlet yang merupakan kanak-kanak lelaki Muhammad Khairul Anis Mohamad Ghazali, 17, mencuri perhatian ramai setelah memenangi tiga emas dalam acara hamba basikal yang diertainya.

Menantu Karuliah Basikal MSD Rompin, Mohd Sharif Abdul Malik, pasukan hamba basikal

tidak sekali-kali berkesempatan dan mereka adalah penyumbang emas pertama pada hari pertama pertandingan Sukan Remaja Pahang kali ini.

"Lalu ini sangat tidak menghairkan para atlet hamba basikal untuk mempersiapkan kepribadian terbaik dan saya amat terkejut dengan seronok itu yang mereka tunjukkan. Ini suatu badai cukup bermakna bagi Kontinjen Rompin," katanya.

Kecantikan Kontinjen Rompin bertamabah apabila atlet wanita yang berkecildalam acara petanque, Afiqah Shazana Mazlan diadukan sebagai Juara dengan selepas beliau berjaya memenangi tiga emas dalam pertandingan petanque kategori shooting double dan triple.

Bekas yang juga merupakan pelajar Uniten Kampus Muadzam Shah dalam juruan pengalihan Kewangan semester dua bukan atlet asing bagi sukan petanque. Paling kemana di Sukan Perlis beliau berjaya menandatangani nama pingat yang sama ketika menyertai kejohanan Liga Kebangsaan tahun lalu.



Para atlet, juralatih dan pengurus pasukan Kontinjen Rompin bergambar kewanan selepas majlis penyempurnaan hadiah di Dewan Utama Politeknik Muadzam Shah.

## NGO tubuh yayasan bantu gelandangan, bekas banduan

**KUALA LUMPUR 16 MAI** - Pergerakan sosial yang telah berkesan menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

Pemangku presiden Yayasan Muadzam Shah, Yusoff Yusoff, berkata, usaha tersebut bertujuan untuk membantu gelandangan dan bekas banduan yang memerlukan bantuan kewangan dan psikologi.

"Kami mahu menubuhkan yayasan ini supaya dapat mendidik mereka ke arah melakukan pekerjaan dan menguruskan kehidupan diri dalam melakukan perubahan meskipun mereka pernah ditahan," katanya.

Yayasan Muadzam Shah ini juga mahu menubuhkan pusat-pusat latihan dan pekerjaan untuk bekas banduan yang memerlukan bantuan kewangan dan psikologi.

"Kami mahu menubuhkan yayasan ini supaya dapat mendidik mereka ke arah melakukan pekerjaan dan menguruskan kehidupan diri dalam melakukan perubahan meskipun mereka pernah ditahan," katanya.



Yayasan Muadzam Shah (YMSH) telah menubuhkan pusat-pusat latihan dan pekerjaan untuk bekas banduan yang memerlukan bantuan kewangan dan psikologi.

## Misi dan visi UNITEN

**Melakukan graduan holistic, seimbang dan mempunyai ciri-ciri keusahawanan**

Uniten telah menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

"Kami mahu menubuhkan yayasan ini supaya dapat mendidik mereka ke arah melakukan pekerjaan dan menguruskan kehidupan diri dalam melakukan perubahan meskipun mereka pernah ditahan," katanya.



Uniten telah menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

## 72 Advertorial

### PENDIDIKAN & LATIHAN



SERANJAH jurusan Program Muadzam Shah.

## Dedah gaya hidup kampus

60 pelajar MRSM sertai Program Albab@UNITEN selama 3 hari



Uniten telah menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

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## Redah ibu kota agih baju raya

Kelab Wawasan Uniten ringan beban gelandangan dan bekas banduan



Uniten telah menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

## Biggest logo for the record

Students do varsity proud with creation using 622,347 bottle caps



Uniten telah menubuhkan Yayasan Muadzam Shah yang bertujuan membantu gelandangan dan bekas banduan di seluruh negara.

## DI SEBALIK JENAMA

### TNB syarikat utiliti terbesar negara

SEJARAH penggunaan elektrik di negara ini bermula abad pada ka 20 di Rawang. Selangor dengan pemernan kebanyakkan di era.

Dua individu yang bertanggungjawab dalam membina generator elektrik adalah Lee Yew dan Thambosamy Pillai untuk bekalan tenaga elektrik di kawasan ini.

Mereka juga merupakan individu yang menggunakan pem elektrik untuk industri perkembangan di Malaysia (Malaysia Electric & Gas) dan ia menjadi peristiwa penting dalam sejarah penggunaan elektrik.

Pada tahun sama, sebuah syarikat perindustrian telah membina stesen tenaga api pertama di Kuala Lumpur membolehkan bekalan elektrik pada pertama kali.

Pada 1900, Stesen Jenajasa Hidroelektrik Sempan, Raub di Pahang oleh Sparking Lumbong Emas Raub Australia menjadi titik tolak kepada proses pembangunan di negara ini.

Dari situ, wujud Tenaga Nasional Berhad (TNB) merupakan syarikat utiliti elektrik terbesar di Malaysia dengan aset melebihi RM69.9 bilion.

Diperkatakan di pejabat utama Barisan Nasional Malaysia, TNB mempunyai kira-kira 29,210 warga kerja dan menyediakan perkhidmatan kepada lebih 7 juta pelanggan di Semenanjung Malaysia dan Sabah.

TNB merupakan pembayar utama kepada agensi industri lokal di Semenanjung Malaysia memantapkan stesen tenaga gas yang kuasa hidro atom. Boleh terus TNB adalah pengeluar, pengangkutan dan pembahagian tenaga elektrik.

TNB juga menjamin dan mengendalikan rangkaian penghantaran komprehensif iaitu Grid Nasional.

Melalui usahanya, TNB juga terlibat dalam pengkhushtan alat-alat, perkakasan serta bawahan tenaga dan kabel, perkhidmatan keusahawanan, pembaikan dan pemeliharaan, pembaikan dan pemeliharaan, pembaikan dan pemeliharaan.

Dalam perkhidmatan modal insan, Universiti Tenaga Nasional (Uniten) ditubuhkan untuk melahirkan individu-individu yang berkecildalam tenaga tenaga.

Sekelompok besar tanggungjawab sosial korporat syarikat dalam pendidikan, tajaan dan pembangunan, diwujudkan menerusi badan amaham satu Yayasan Tenaga Nasional.





**CALENDAR  
OF EVENTS**

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**23**

## CALENDAR OF EVENTS



**3 SEPTEMBER 2014**  
FORUM PERDANA 2014

**4 SEPTEMBER 2014**  
HARI KECEMERLANGAN  
KSHAS



**22 SEPTEMBER 2014**  
MOU AND LOC SIGNING  
CEREMONY BETWEEN  
HITACHI-GE NUCLEAR  
ENERGY, TOKYO INSTITUTE OF  
TECHNOLOGY AND UNITEN

**15-18 OCTOBER 2014**  
YAHIJAU GREEN YOUTH  
SUMMIT 2014



**14 NOVEMBER 2014**  
CAREER TALK





**18-20 NOVEMBER 2014**  
6th INTERNATIONAL CONFERENCE  
ON INFORMATION TECHNOLOGY AND  
MULTIMEDIA 2014 (ICIMU 2014)

**20 NOVEMBER 2014**  
GEMPAK (GERAKAN  
MOTOSIKAL PENCETUS  
AMALAN KESELAMATAN)



**3 DECEMBER 2014**  
THE SOLOMON ISLANDS  
HIGH COMMISSION VISIT  
TO UNITEN

**3 DECEMBER 2014**  
IT CAREER DAY



**19 – 21 DECEMBER  
2014**  
TEAM BUILDING



**23 DECEMBER 2014**  
MAJLIS PENYAMPAIAN  
BANTUAN PERSEKOLAHAN  
TAZU

**24 DECEMBER 2014**  
EXCHANGE OF MOU  
DOCUMENT UNITEN-  
TOKYO INSTITUTE OF  
TECHNOLOGY



**3 JANUARY 2015**  
MAJLIS SAMBUTAN  
MAULIDUR RASUL  
PERINGKAT  
KEBANGSAAN

**12 JANUARY 2015**  
NETWORKING GAMES



**20 JANUARY 2015**  
MOU SIGNING  
BETWEEN TNB, UNITEN  
AND UNIVERSITY OF  
MELBOURNE





**22 JANUARY 2015**  
MEET AND GREET SESSION  
UNITEN MBA-LDC PROGRAM

**26 JANUARY 2015**  
MAJLIS SEKALUNG  
KASIH SEHAYAT  
INGATAN



**30 JANUARY 2015**  
RMC RESEARCH AWARDS  
CEREMONY

**10 FEBRUARY 2015**  
MOU CEREMONY  
BETWEEN UNITEN AND  
CYIENT LTD



**16 FEBRUARY 2015**  
LAUNCHING OF TNB  
BETTER BRIGHTER  
INTERNSHIP PROGRAM  
AND UNITEN SMART GRID  
LAB



**23 FEBRUARY 2015**  
MOU SIGNING BETWEEN  
UNITEN & TOHOKU  
UNIVERSITY, JAPAN

**3 MARCH 2015**  
BENGKEL KELUARGA  
BAHAGIA



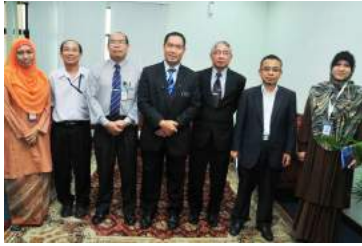
**7 MARCH 2015**  
UNITEN OPEN DAY

**13 MARCH 2015**  
UNIVERSITY OF  
APPLIED SCIENCE (UAS)  
OFFENBURG GERMANY  
VISIT TO UNITEN



**25 MARCH 2015**  
UNITEN – MARA  
INITIATIVE MEETING





**30 MARCH 2015**  
AWARENESS SESSION  
MALAYSIA HIGHER  
EDUCATION BLUEPRINT  
(2015 - 2025)

**2 APRIL 2015**  
NSEBA 2015



**8 APRIL 2015**  
NATGRAD  
2015

**8 APRIL 2015**  
BICARA INSPIRASI  
KEJAYAAN



**15 APRIL 2015**  
FLAG OFF PINTAR 2015



**18-19 APRIL 2015**  
**CONFERENCE OF PROFESSIONAL HUFFAZ 2015**

**17 APRIL 2015**  
**ILHAM CREATIVE FESTIVAL 2015**



**24 APRIL 2015**  
**UNITEN SOLAR RANGER MUADZAM SHAH TOUR 2015**

**26 APRIL 2015**  
**ATUR KREATIF**



**3 MAY 2015**  
**UNITEN NEW STUDENT INTAKE REGISTRATION DAY**





**15 MAY 2015**  
CS/IT ALUMNI REUNION

**19 MAY 2015**  
VISIT FROM THE  
AMBASSADOR OF  
IRELAND



**19 MAY 2015**  
MOU SIGNING  
BETWEEN UNITEN &  
UNIVERSITY MALAYA

**20 MAY 2015**  
LAUNCHING  
CEREMONY  
OF QUALITY  
ENVIRONMENT  
(QE) INITIATIVES  
'BIG CLEANING DAY  
AND OPEN-OFFICE  
CONCEPT'



**21 MAY 2015**  
ITEX 2015



**5 JUNE 2015**  
 VISIT FROM VIT  
 UNIVERSITY, VELLORE,  
 INDIA



**11 JUNE 2015**  
 ALBAB @ UNITEN



**11 JUNE 2015**  
 FORUM BICARA  
 ADDEEN

**12 JUNE 2015**  
 COIT STUDENTS'  
 APPRECIATION DAY



**15-17 JUNE 2015**  
 SELF-ACCREDITATION  
 AUDIT





**22 JUNE 2015**  
AKPK MEETING

**6 JULY 2015**  
UNITEN STAFF  
ASSEMBLY SESSION  
WITH THE VICE-  
CHANCELLOR



**7 JULY 2015**  
ENGINEERING  
ACCREDITATION  
DEPARTMENT (EAD)  
ROADSHOW

**9 JULY 2015**  
IFTAR PERDANA 2015



**30 JULY 2015**  
MAJLIS MESRA AIDILFITRI  
UNITEN 2015 BERSAMA  
KOMUNITI SETEMPAT



**13 AUGUST 2015**  
HARI PELANGGAN  
INSPA

**15 AUGUST 2015**  
18th UNITEN  
CONVOCAATION



**18 AUGUST 2015**  
THE INTERNATIONAL  
SYMPOSIUM ON AGENTS,  
MULTI-AGENT SYSTEMS AND  
ROBOTICS (ISAMSR)

**19 AUGUST 2015**  
SECTOR FOCUSED  
CAREER FAIR AT  
KSHAS



**25 AUGUST 2015**  
BFOS SCIENTIFIC  
COMMITTEE VISIT TO  
UNITEN





ALFATEH

**COLLEGE OF  
FOUNDATION AND  
GENERAL STUDIES  
(CFGGS)**

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**35**

## COLLEGE OF FOUNDATION AND GENERAL STUDIES (CFGS)

### Introduction

College of Foundation and General Studies offers foundation and diploma programmes of national and international standard that develop essential skills to live, learn and work in a rapidly globalizing world. This includes intellectual, personal, emotional, leadership, entrepreneurship and social skills.

CFGS has the reputation for high standards of teaching, pedagogical leadership and student achievement. We work with governments, private sectors and international organizations to develop challenging programmes of international education and rigorous assessments.

In the effort to enhance teaching quality among staff, CFGS consistently conducts workshops and training at college premises, local insitutions and around the world through conferences, seminars and training providers, focusing on selected programme issues and strategies.

Equipped with well structured programmes, CFGS monitors student development via academic skills and encourages active learning by engaging new values and capabilities. It nurtures students to be Inquisitive, Knowledgeable, Communicative, Principled, Open-minded, Caring, Balanced and Reflective.

The College of Foundation and General Studies aims to develop young generation who can help to create a better and more peaceful world through intercultural understanding and respect. Its programmes serve to encourage students across the curriculum to become active and compassionate lifelong learners who understand differences among people; having the ability to relate to other members of the community with an open mind and broadened perspective.

The programmes at CFGS emphasize on eight academic areas which include:

- Language Acquisition and Literature
- Science Social, Individuals and Societies
- Mathematics (Pure and Applied)
- Pure Science with Physics and Chemistry
- Business and Management
- Accounting and Finance
- Computer Science and Information Technology
- Engineering Technology.

### Highlights of Activities

Students are exposed to extra-curricular activities both at foundation and diploma levels to develop strong and valuable skills from different categories of activities illustrated below: -

**Identities and relationships with community**

**Personal and cultural identity with different races**

**Orientation of space and time in strategic planning**

**Scientific and technical innovation to generate technical capabilities**

**Globalization and sustainability networking around the world**





Dean of CFGS, Mr Mohd Ariff Ahmad Tarmizi (second from left) with ex-students of "Program Skim Pelajar Cemerlang JPA" during "Majlis Anugerah Industri Graduan 2015" Dinner. One of the students, Gavin Fong, is now pursuing Engineering Degree in one of world's prestigious university, the Imperial College of Science and Technology, London, United Kingdom.



"Sekolah Angkat CFGS" Graduation Ceremony at Sekolah Menengah Kebangsaan Cheras Jaya.



Dean of CFGS, Mr Mohd Ariff Ahmad Tarmizi handing out 5 sets of Al-Quran Braille for blind students at Sekolah Menengah Kebangsaan Khas (OKU) in Setapak, Kuala Lumpur.



"Lebaran Bersama Nenda", a community programme at Pusat Penjagaan Rumah Orang Tua Beranang, in conjunction with "Majlis Rumah Terbuka Hari Raya", organized by Group 4 Tahfiz students session 2015/2016



Educational Visit to University of Jordan organized by Tahfiz Engineering students and ex-students



"Persidangan Huffaz Profesional" organized by Tahfiz students and CFGS




YaHijau Green Youth Summit 2014



Albab @ UNITEN





**COLLEGE OF  
BUSINESS  
MANAGEMENT  
AND ACCOUNTING  
(COBA)**

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# COLLEGE OF BUSINESS MANAGEMENT AND ACCOUNTING (COBA)

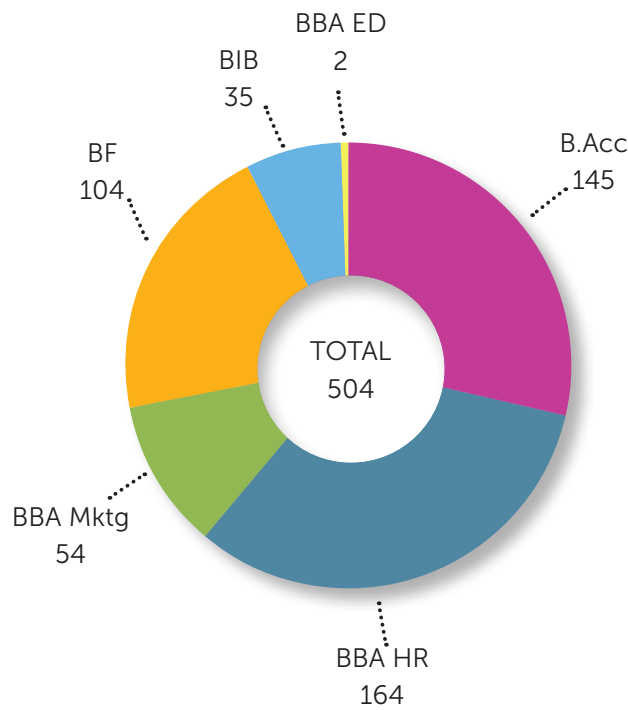
## Introduction

COBA offers 6 Undergraduate Programmes:

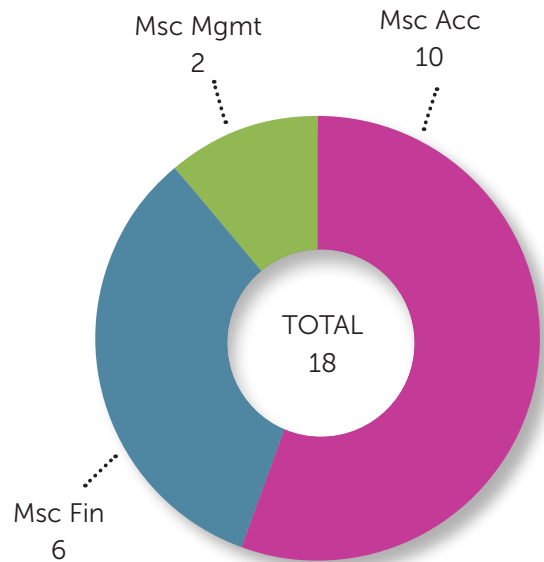
- 1- Bachelor of Accounting (Hons)
- 2- Bachelor of Finance (Hons)
- 3- BBA (Hons) in Human Resource Management
- 4- BBA (Hons) in Marketing
- 5- BBA (Hons) in Entrepreneur Development
- 6- Bachelor of International Business (Hons)

and 4 Postgraduate Programmes:

- 1- MSc in Management
- 2- MSc in Finance
- 3- MSc in Accounting
- 4- Master of Business Administration



Undergraduate enrolment



Postgraduate enrolment



COBA has organized a series of meetings with the Industry Advisory Panel (IAP), and invited External Examiners (EE) to consolidate its mission - to strive for excellence.

### List of Industry Advisory Panel and External Examiners

Programmes	Industry Advisory Panel	Position/Institution
Bachelor of Accounting (Hons)	Dato' Haji Che Pee bin Samsudin	Accountant General Malaysia
	Mr. Fazlur Rahman bin Zainuddin	Chief Financial Officer, Tenaga Nasional Berhad
	Dato' Rosini binti Abdul Samad	Chairman of Audit Committee, MSM Malaysia Holdings Berhad
	Datuk Johan Idris	Managing Partner, KPMG Malaysia
	Mr. Nik Mohd Hasyudeen Yusoff	Executive Chairman, Audit Oversight Board, Securities Commission of Malaysia.
	Mr. Salihin Abang	Managing Partner, SALIHIN Consulting Group Sdn. Bhd
	Prof. Dato' Syed Amin Aljeffri Prof. Dr. Takiyah binti Mohd Iskandar	Executive Chairman, Chartered Accountants Visiting Scientist Fellow, UiTM Shah Alam
Bachelor of Finance (Hons)	Mr. Aziz Anuar	Senior Vice President, Permodalan Nasional Berhad
	Dato' Charon Wardini bin Mokhzani	Managing Director, Khazanah Research Institute (KriS)
	Datin Azalina Adham	Director of Strategy and Transformation of Bursa Malaysia Bhd
	Miss Chung Kar Yin	Executive Director, Malaysian Finance Planning Council (MFPC)
	Prof. Dr. Noor Azlinna Azizan	Director, Pusat Keusahawanan UMP, Universiti Malaysia Pahang
BBA (Hons) in Human Resource Management	Dato' Muhammad Razif Abdul Rahman	Vice President (Human Resource), Tenaga Nasional Berhad
	Dr. Kamarulzaman b. Mohamed Zin	Former Chief Executive Officer, Silterra Malaysia Sdn Bhd.
	Dato' Dr. R. Palan	Chief Executive Officer, SMR Technologies Bhd
	Mr. Ahmad Fer-Rouse b. Ahmad Khairudin	Senior General Manager, Felda Global Ventures
	Pn. Nora bt. Abd Manaf	Group Chief Human Capital Officer, Maybank
Bachelor of International Business (Hons)	Mr. Romli Ishak	Director, LaDIY Healthcare Sdn Bhd
	Mr. Che Akhma bin Ismail	Chief Operating Officer, Composites Technology Malaysia Sdn. Bhd.
	Datuk Ravindran Palaniappan	Senior Director, Bahagian Kerjasama Ekonomi Asean (MITI)
	Prof. Madya Dato' Dr. Hj. Hilmi b. Ab. Rahman	Rector, UiTM Kelantan
BBA (Hons) in Marketing	Dato' Dr. Ir. Megat Radzman bin Megat Khairudin	Executive Chairman, SEMATA Group of Company
	Mr. Khairil Ismahafiz bin Muhadzir	Chief Executive Officer, DagangAsia Net Sdn. Bhd

Programmes	Industry Advisory Panel	Position/Institution
BBA (Hons) in Entrepreneur Development	Mr. Fauzul Na'im Ishak	Master Trainer & President, Kumpulan Syarikat FINE Academy
	Pn. Masnani bt. Hj Bashiron	Director SME Corp Malaysia, Pahang branch
	YM Dr Raja Shamri bin Raja Husin	Founder, Golden Minds Consultant

Programmes	External Examiner	Position/Institution
Bachelor of Accounting (Hons)	Prof. Dr. Roszaini Haniffa	Heriot-Watt University Edinburgh, UK
BBA (Hons) in Human Resource Management/ Marketing/ Entrepreneur Development	Prof. Fang Lee Cooke	Monash University, Australia
Bachelor of International Business (Hons)	Prof. Kosmas X. Smyrniotis	RMIT University, Australia
Bachelor of Finance (Hons)	Prof. Dr. Mohamed Ariff bin Syed Mohamed	University Putra Malaysia

List of activities related to Industry Advisory Panel and External Examiners during the financial year are as follows:

Date	Programmes	Venue
27-30 October 2014	Visit by External Examiner for Bachelor of International Business (Hons)	UNITEN KSHAS
18-19 May 2015	Meeting with IAP for Bachelor of Finance (Hons), BBA (Hons) in Human Resource Management/ Marketing and Bachelor of International Business (Hons)	Seri Pacific Hotel, Kuala Lumpur
29 May 2015	Meeting with IAP for Bachelor of Accounting (Hons)	RHR Hotel @ UNITEN
15-16 June 2015	Visit by External Examiner for Bachelor of Finance (Hons)	UNITEN KSHAS



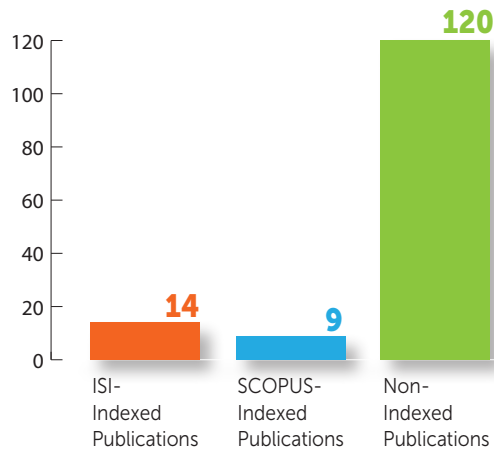
IAP Meeting (Accounting)



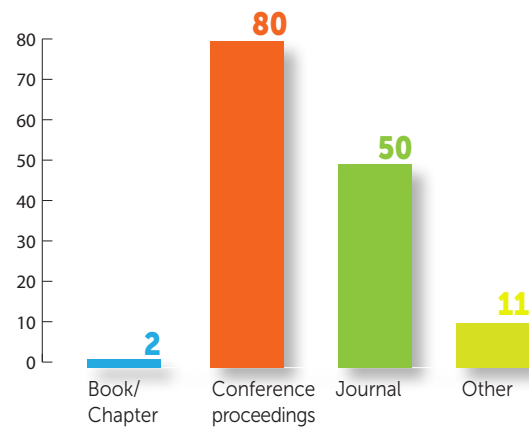
IAP Meeting (Finance)



## Publications



Indexed and Non-Indexed Publications



Types of Publication

## Highlights of Activities

### Research and Development Activities

Date	Programmes	Speaker/Trainer
25-26 Sep 2014	PLS workshop	Prof. T. Ramayah (USM)
30 Sep – 1 Oct 2014	Zakat Assessment Certification Course	Pusat Zakat Pahang and Lembaga Zakat Selangor
7 Nov 2014	Strengthening the Practitioner's Knowledge Base in Learner Diversity	Suhaimi Sudin (UNITEN)
5 Dec 2014	Talk on supervisory skills	Prof. Zainal Ariffin Ahmad (UNITEN)
19 Dec 2014	Stand & Deliver with IMPACT	Rizal Rashid (Neuronworks Training)
9 Aug 2015	Writing Workshop	Dr. Othman Talib (UPM)
21 Aug 2015	Talk on supervisory skills	Prof. Ir. Dr. Norashidah Md. Din (UNITEN)



NSEBA 2015



Workshop Penulisan Tesis Pantas dan Pengurusan Artikel



Stand & Deliver with IMPACT



Zakat Assessment Certification Course

### Teaching and Learning Activities by Academic Staff

Date	Programmes	Venue
7-8 Oct 2014 & 24-26 May 2015	Framework-based Teaching Workshops	UNITEN KSHAS
23-25 Jan 2015	Academic retreat: Workshop On Academic Curriculum Review 2015	Ancasa Royale, Pekan, Pahang
26 May 2015	OBEOS day (academics completing OBE online)	UNITEN KSHAS
27-28 July 2015	MRR OBEOS days (academics uploading mid-term review report online)	UNITEN KSHAS
28 Aug 2015	Recharge programme (for students with CGPA below than 2.00)	UNITEN KSHAS

This financial year, COBA staff has secured 8 research projects with external funding from MOHE (FRGS), Universiti Teknologi Petronas, Energy Commission (Suruhanjaya Tenaga) and Tabung Amanah Zakat UNITEN (TAZU). Cumulatively, the projects are worth RM472,945.17. There are 10 consultancy projects worth about RM1.3 million. Our research excellence is also demonstrated through winning 4 silver medals at the 26th International Invention & Innovation Exhibition (ITEX 2015), runner-ups at Hari Inovasi Pahang 2015, and securing Best Paper awards at several conferences.

For the first time, COBA submits two nominations for the National Award for Management Accounting (NAfMA) 2015 and one of them has been shortlisted for the CIMA Star of the Year award.





Consultancy with TNB



ITEX 2015



NAFMA 2015



Framework-based Teaching Workshop

This financial year records a total of 35 activities organized under the UNITEN Student Development Implementation Committee of College of Business Management and Accounting (USDIC-COBA). Majority of the activities fall under the categories of Leadership and Intellectual, and Communication and Entrepreneurship. These activities were not only financed by the annual budget allocated for USDIC, but some projects successfully secured sponsorship from various companies, professional bodies, government agencies and so on. This experience equips students with cutting-edge skills ranging from organizing events to leadership, entrepreneurial and problem solving abilities.

Some of the accolades in this financial year are:

- In May 2015, ENACTUS UNITEN KSHAS emerged CHAMPION at ENACTUS Malaysia National Cup 2015, and represented Malaysia for ENACTUS World Cup 2015 in Johannesburg, South Africa. They proudly advanced to the semi-final round.
- On 19 August 2015, COBA students successfully organized Sector-Focused Career Fair in collaboration with TalentCorp.



Educational Hub Documentary



ENACTUS KSHAS – National Champion



Forum Perdana 2014



Global Outreach Programme to South Korea



Mesra Gelandangan @ Kuala Lumpur



Smart Tenaga Programme



Majlis Anugerah Dekan



Sector-Focused Career Fair





**COLLEGE OF  
ENGINEERING  
(COE)**

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## COLLEGE OF ENGINEERING (COE)

### Introduction

College of Engineering (COE) is one of the first colleges established in UNITEN. It has 4 academic departments with 5 undergraduate programmes, and 7 postgraduate programmes that are offered in collaboration with College of Graduate Studies. For quality assurance, COE undergraduate programmes are accredited by Board of Engineers Malaysia via the Engineering Accreditation Council. In addition, COE programmes are internationally recognized by 3 professional bodies in the UK namely Institution of Engineering and Technology (IET), Institution of Mechanical Engineers (IMechE) and Institution of Civil Engineers (ICE). In the local scene, COE has achieved Tier 5 (Excellent) in the D-Setara ranking which is at par with other top Engineering Faculties in Malaysia.

In terms of teaching and learning, COE brings in RM53.2 million teaching revenue with the help of quality lecturers. COE has an excellent average teaching feedback score of 82.26 out of 100. This helps to generate highly qualified graduates with an employability rate of 99.15%.

Apart from offering high quality academic programme, faculty members are very active in research through 20 research centres. In total, COE has managed to secure RM2.9 million research grants and 11.3 million consultancy projects. Further, it has a total of 312 journal publications and has established 74 successful collaborations with external parties.

### Electrical Engineering Department Adjunct Faculty Members

No.	Name	Industrial Position	Post
1.	YBhg. Datuk Ir. Baharin Din	Vice President (Distribution), Tenaga Nasional Berhad	Adjunct Professor
2.	Ir. Dr. Sazali P. Abdul Karim	Principal Technical Expert (Protection System Analysis), Tenaga Nasional Berhad	Adjunct Professor
3.	Dr. Aznan Ezraie Ariffin	Vice President (Investments), Khazanah Nasional Berhad	Adjunct Professor
4.	Dr. Aziz Marzuki Ahmad Marican	Managing Director, DCS Engineering Sdn. Bhd	Adjunct Professor
5.	Ir. Dr Mohd Fadzil Mohd Siam	General Manager (Transmission & Distribution), TNB Research Sdn. Bhd.	Adjunct Professor

### Mechanical Engineering Department Adjunct Faculty Members

No.	Name	Industrial Position	Post
1.	YBhg. Dato' Hj. Nor Azman Mufti	Vice President (Energy Ventures), Tenaga Nasional Berhad	Adjunct Professor
2.	YBhg. Datuk Hj. Zainudin Ibrahim	Vice President (Generation), Tenaga Nasional Berhad	Adjunct Professor
3.	YBhg. Datuk Dr. Che Ab Rahim Hj. Nik	Deputy Secretary General (Environmental) Ministry of Natural Resources and Environment of Malaysia (NRE)	Adjunct Professor
4.	Associate Professor Dr. Samsul Bahri Hj. Tamrin	Associate Professor, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia	Adjunct Associate Professor
5.	YBhg. Prof Emeritus Dato' Dr. Noramly Muslim	Former Deputy Director General of UN International Atomic Energy Agency (IAEA)	Principal Fellow
6.	Tn. Hj. Ir. Mokhtar Majid	Former Managing Director, TNB Janamanjung Sdn. Bhd.	Principal Fellow



### Civil Engineering Department Adjunct Faculty Members

No.	Name	Industrial Position	Post
1.	YBhg. Datuk Rozimi Remeli	Vice President (Transmission), Tenaga Nasional Berhad	Adjunct Professor
2.	Ir. Dr. Mohd Sabri Abdullah	Managing Director, DRSA Consulting Sdn. Bhd.	Adjunct Professor
3.	YBhg. Dato' Ir. Zainor Rahim Ibrahim	Director, Department of Irrigation and Drainage	Adjunct Professor

### Electronics & Communication Engineering Department Adjunct Faculty Members

No.	Name	Industrial Position	Post
1.	Ir. Cheang Kok Meng	Executive Director, Institution of Engineers, Malaysia	Adjunct Professor
2.	Mr. Lingananthan Thillainathan	Chief Executive Officer, Traconsult Sdn. Bhd.	Adjunct Associate Professor
3.	Ir. Megat Jalaluddin Megat Hassan	Chief Strategic Officer, Tenaga Nasional Berhad	Adjunct Profesor
4.	Mr. Anthony Samy Rajamanickam	Head (Information and Communications Technology) Corporate Planning and Sustainability Department Regulatory Economics and Planning Division, Tenaga Nasional Berhad	Adjunct Associate Professor
5.	YBhg. Dato' Ir. Dr. Zainul Abidin Md Sharrif	Former Vice Chancellor, UNITEN	Emeritus Professor

### Industrial Advisory Panel

No.	Panels	Organisation	COE Department
1.	YBhg. Datuk Rozimi Remeli	Vice President (Transmission ) Tenaga Nasional Berhad	Civil Engineering
2.	YBhg. Dato' Ir. Hj. Hanapi Mohamad Nor	Director, Water Resources & Hydrology Division, Department of Irrigation and Drainage (DID)	Civil Engineering
3.	Ir. Hj. Azhar Mohd Ali	Chief Operating Officer, Bina Puri Construction Sdn. Bhd.	Civil Engineering
4.	Associate Prof. Dr. Ir. Taksiah A. Majid	School of Civil Engineering, USM	Civil Engineering
5.	Prof. Ir. Dr. Mohd Sabri Abdullah	Managing Director , DRSA Consulting Sdn. Bhd.	Civil Engineering
6.	Prof. Ir. Dr. Zuhairi Abd Hamid	Executive Director, Construction Research Institute of Malaysia (CREAM)	Civil Engineering
7.	Ir. Mohd Adnan Mohd Nor	Managing Director RPM Engineers Sdn. Bhd.	Civil Engineering
8.	Ir. David Ng Shiu Yuen	IEM Representative	Civil Engineering
9.	YBhg. Datuk Seri Ir. Azman Mohd	President / Chief Executive Officer, Tenaga Nasional Berhad	Electronics & Communication and Electrical Power
10.	YBhg. Dato' Muhammad Razif Abdul Rahman	Vice President (Human Resources) Tenaga Nasional Berhad	Electronics & Communication and Electrical Power

11.	YBhg. Dato' Ir. Aishah Dato' Abdul Rauf	Independent Director for Malaysia Transformer Manufacturing Sdn. Bhd.	Electronics & Communication and Electrical Power
12.	Mr. Rosman Hamzah	Director of Business Development, ALSTOM Asia Pacific Sdn. Bhd.	Electronics & Communication and Electrical Power
13.	Ir. Mohamed Zaimir Mohamed Suffian	Senior Vice President (Project Development Division), Syarikat Prasarana Negara Berhad	Electronics & Communication and Electrical Power
14.	Ir. Dr. Zahrul Faizi Hussien	Head, Malakoff Utilities Sdn. Bhd.	Electronics & Communication and Electrical Power
15.	Mdm. Eu Poh Leng	KLM Internal and External Cu WB Team Manager	Electronics & Communication and Electrical Power
16.	Engr. Narendren Rengasamy	General Manager, Ligman Lighting Malaysia	Electronics & Communication and Electrical Power
17.	Dr. Kamarulzaman Mohamed Zin	Chief Executive Officer, SilTerra Malaysia Sdn. Bhd.	Electronics & Communication and Electrical Power
18.	Mr. Lim Keng Hock	Chief Executive Officer, Comintel Sdn. Bhd.	Electronics & Communication and Electrical Power
19.	Mr. Wan Roz Wan Hussein	Technical Director, RF Communication (M) Sdn. Bhd.	Electronics & Communication and Electrical Power
20.	Mr. Edward Yee Chee Kheong	Vice President and Head of Enterprise Business, YTL Communications Sdn. Bhd.	Electronics & Communication and Electrical Power
21.	Mr. Reza Mirkhani	Chief Marketing Officer and Member of the Board, Enverv Inc., USA	Electronics & Communication and Electrical Power
22.	Mr. Giovanni Minetti	President / Chief Executive Officer, Paradox Engineering SA, Switzerland.	Electronics & Communication and Electrical Power
23.	YBhg. Dato' Hj Nor Azman Mufti	Vice President (Energy Ventures) Tenaga Nasional Berhad	Mechanical Engineering
24.	Tn. Hj Anuar Yusof	Managing Director, TNB Repair and Maintenance Sdn. Bhd.	Mechanical Engineering
25.	Ir. Dr. Zainul Asri Mamat	Senior Technical Expert (Gas Turbine Performance Enhancement, Operation Department, Generation Division) Tenaga Nasional Berhad	Mechanical Engineering
26.	Dr. Mohd Hariffin Boosroh	General Manager (Generation & Environment), TNB Research Sdn. Bhd.	Mechanical Engineering
27.	Ir. Dr. Mohd Fairuz Abdul Rahman	Assistant Director, Department of Occupational Safety and Health	Mechanical Engineering
28.	Ir. Hambali Hussein	Managing Director, NBH Perunding (M) Sdn. Bhd.	Mechanical Engineering
29.	Ir. Dr. Hj Kamsani Abdul Majid	Managing Director, Unipower Intelligent Sdn. Bhd.	Mechanical Engineering
30.	Tuan Syed Putra Syed Mokhtar	Managing Director, Diesel Engineering Services Sdn. Bhd.	Mechanical Engineering
31.	Ir. Mohamed Ali Yusoff	Institution of Engineers Malaysia, Asean Engineers Register Secretariat	Mechanical Engineering
32.	Mr. Mohamad Sharif Harun	Assistant Vice President, Technical Training, Malakoff Bhd.	Mechanical Engineering
33.	Ir. Wan Azman Wan Salleh	Chief Operating Officer, UEM Edgenta Berhad / Edgenta PROPEL Berhad	Mechanical Engineering



## Highlights of Activities

### Research & Innovation Exposition

The following are some examples of multitudes of awards garnered by COE faculty members

No.	Activity	Date
1.	Malaysia Technology Expo 2015. COE won 2 Gold, 1 Silver and 5 Bronze.	12-14 Feb-15
2.	TNB Open Innovation Contest 2014. Mr Mohd Sufian and Prof Dr Chandan K Chakrabarty from COE won a few awards.	20 Oct-31 Dec-15
3.	26th International Invention & Innovation Exhibition. COE won 2 Gold, 2 Silver and 3 Bronze	21-23 May-15



ITEX 2015 (21–22 May 2015)

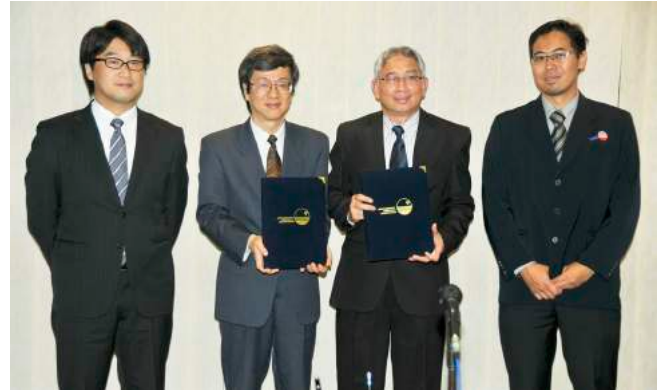
### MOU and Collaboration Activities

COE is active in establishing collaboration with various local and international bodies. Collaborations enhance the value of COE researchers and boost the reputation of COE in the international research arena. For this financial year, COE has established partnership and collaboration with the following list of international organizations and tertiary institutions.

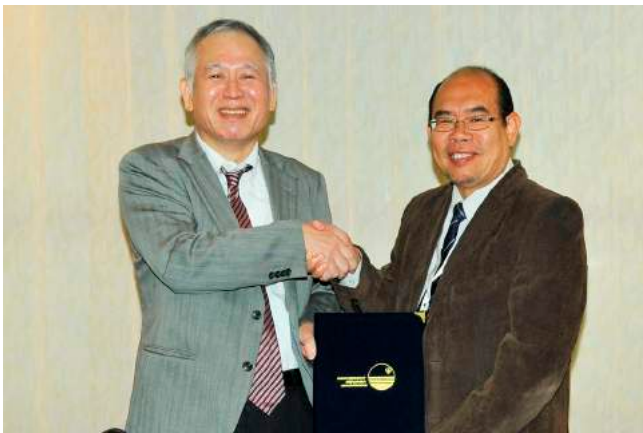
No.	Name of Organization / Institution	Date of Signing
1.	Unipower Intelligent Sdn. Bhd.	25-Sep-14
2.	Kalki Communication Technologies Pvt. Ltd India	25-Sep-14
3.	Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology, Japan	22-Dec-14
4.	Hitachi-Ge Nuclear Energy Limited, Japan	22-Dec-14
5.	Dept. of Electrical & Electronic Engineering and Dept. of Electronics, Tokyo Institute of Technology, Japan	24-Dec-14
6.	Fracture and Reliability Research Institute, Tohoku University, Japan	23-Feb-15



MOU UNITEN & Research Laboratory for Nuclear Reactors, Tokyo Institute of Technology, and Hitachi-Ge Nuclear Energy Limited, Japan



MOU UNITEN & Fracture and Reliability Institute, Tohoku University, Japan



MOU UNITEN & Tokyo Institute of Technology (Dept. Electrical & Electronics Engineering)



MOU UNITEN & Unipower Intelligent Sdn. Bhd.



MOU UNITEN & Kalki Communication Technologies Pvt Ltd, India



## Collaboration Activities

No.	Name of Organization / Institution	Name of collaborator (organization)	Date of activity
1.	Visit by TAMCO	TAMCO Switchgear Sdn. Bhd.	11-Sep-14
2.	Campus Visit	Sekolah Menengah Menengah Islam Hira, Jeram	13-Nov-14
3.	Crime Prevention Awareness Program	Malaysian Crime Prevention Foundation (MCPF)	14-Nov-14
4.	Campus Visit	Mutiara Timur-YTN	17-Nov-14
5.	Walk-In Interview by TAMCO Switchgear	TAMCO Switchgear Sdn. Bhd.	4-Dec-14
6.	Campus Visit	Yayasan Kebajikan Anak Yatim Kelantan	8-Dec-14
7.	Career Talk by Mr. Ivan Yong of Saville Consulting	Saville Consulting, Hong Kong	15-Dec-14
8.	Talk on Technopreneurship by Mr. Amir of Technology Park Malaysia	Technology Park Malaysia	15-Dec-14
9.	Talk by Prof. Akagi on New Trends in Smart Grids and Power Electronics in Japan	Tokyo Institute of Technology	24-Dec-14
10.	PSS/E Training under VAR Project	TNB Research Sdn. Bhd.	6-9 Jan-15
11.	Adjunct Professor Talk by Ybhg. Datuk Rozimi Rameli, Vice President Tenaga Nasional Berhad Transmission	Tenaga Nasional Berhad Transmission Sdn. Bhd.	16-Jan-15
12.	Nuclear Talk by Malaysian Nuclear Agency	Malaysian Nuclear Agency	20-Jan-15
13.	Student Internship Recruitment by Sharp Electronics (M) Sdn. Bhd.	Sharp Electronics (M) Sdn. Bhd.	27-Jan-15
14.	Factory Visit	TAMCO Switchgear Sdn. Bhd.	28-Jan-15
15.	Adjunct Professor Talk by Prof. Ybhg. Dato' Sri Ir. Hj. Ahmad Husaini Sulaiman	Director General of Department of Irrigation and Drainage Malaysia	30-Jan-15
16.	Student Internship Recruitment	Rapid Matrix Sdn. Bhd.	4-Feb-15
17.	International Workshop on Energy, Materials and Reliability 2015	Fracture And Reliability Research Institute, Tohoku University, Japan	23-24 Feb-15
18.	CADD Information Desk	CADD CENTER, Six Sigma Synergy Sdn. Bhd.	11-12 Mar-15

## Continous Academic Quality Improvement Activities

### Academic Quality Perserverance Through OBE Implementation

College of Engineering is the pioneer of the self-developed online OBE system (OBEos) which is currently utilized by all colleges in UNITEN. The benefits of the OBEos include multi-user access, improved data quality, centralized documentations, ability to conduct performance tracking and improve efficiency in analysis.

### Benchmarked Programmes With Prestigious Universities

All COE programmes are benchmarked with renowned universities locally and internationally. In the recent benchmarking exercise, our programmes were benchmarked with USM, UniMAP, and UiTM.



Benchmarking visit to UNIMAP



Benchmarking visit to UiTM

### Continuous Quality Improvement (CQI) For All Programmes

COE practises strict CQI for all the undergraduate programmes. Annual Programme Review and Industrial Advisory Panel meetings are conducted annually for this purpose. External Examiner visit is arranged once every two years for each programme.



Annual Programme Review 2015



Industrial Advisory Panel Meeting





**COLLEGE OF  
INFORMATION  
TECHNOLOGY  
(COIT)**

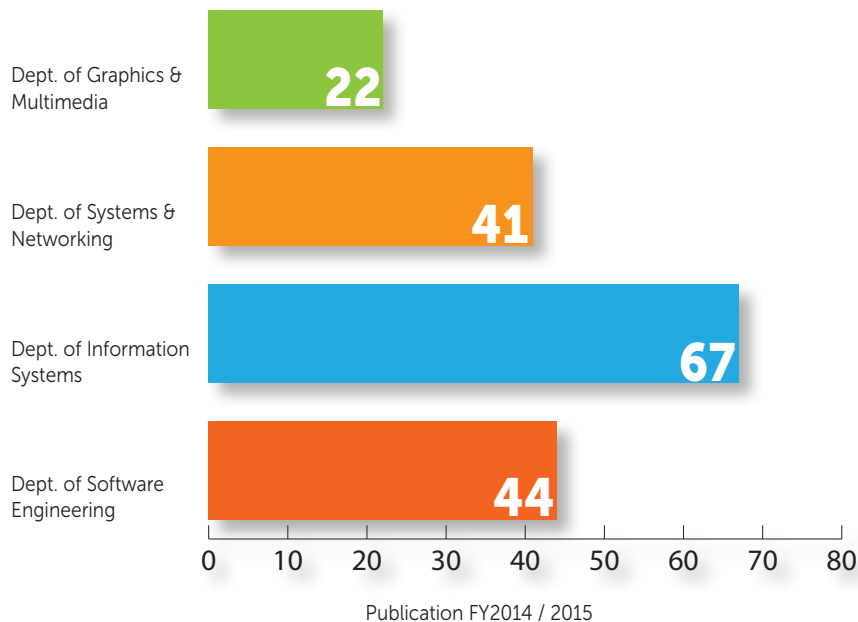
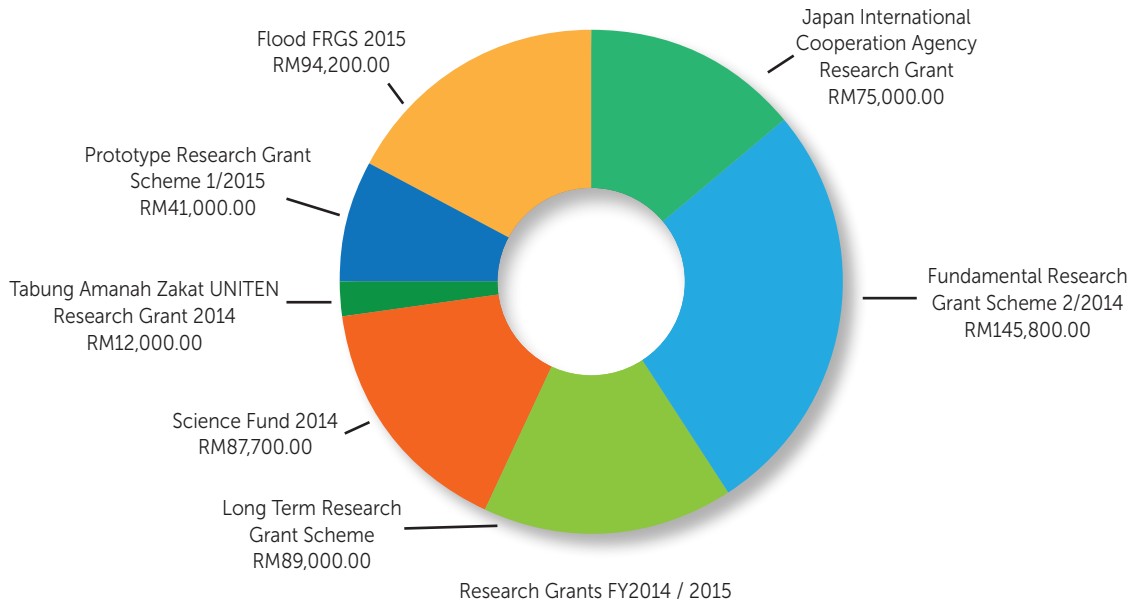
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## COLLEGE OF INFORMATION TECHNOLOGY (COIT)

### Introduction

Staying true to its roots, the College of Information Technology (COIT) remains focused on its endeavour to be the leading college in Computer Science and IT both nationally and internationally. Since its inception in 2003, the College has undergone numerous transformations in terms of the academic programmes

offered, improved teaching and learning deliveries, also research, development and innovation (RD&I) initiatives. Throughout financial year 2014/2015, COIT has organized and participated in various academia-related activities.





## Highlights of Activities

COIT has always been proactive in broadening its relationship with other institutions of higher learning and relevant industry players. These established symbiotic relationships not only enhances COIT "branding" and internationalization, but also makes possible opportunities for student mobility and staff exchange. Such programmes include student internships or staff sabbatical attachments. These networking initiatives

also generate research joint-ventures that are beneficial for both staff and students. To date, MOUs have been signed with Brandenburg University of Applied Science, Germany on 19th November 2014, University of Lincoln, UK on 15th December 2014, University of Malaya on the 20th of May 2015, Rangsit University, Thailand and Rocket Web Sdn. Bhd both, on 31st July 2015.



Dec 2014 - MoU signing ceremony with University of Lincoln.



May 2015 - MoU signing ceremony with the University of Malaya.



July 2015 - MoU signing ceremony with Rangsit University.



July 2015 - MoU signing ceremony with Rocket Web Sdn. Bhd.

## External Examiner Visit

Both Computer Science degree programmes, Software Engineering and Systems & Networking, received their External Examiner visits in 2015. The External Examiner for the Software Engineering programme is Professor Mikio Aoyama from the Dept. of Software Engineering, Nanzan University Japan.

Professor Krzysztof Pawlikowski from University of Canterbury, New Zealand came to review the Bachelor of Computer Science (Systems & Networking) programme.



Professor Mikio Aoyama's visit

Professor Pawlikowski's visit







**19 – 20 November 2014**  
6th International  
Conference on  
Information Technology  
and Multimedia  
at UNITEN (ICIMu2014).

**3 December 2014**  
IT Career Day.



**11 March 2015**  
IAP Meeting for the  
Bachelor of IT  
(Graphics and  
Multimedia) (Hons.)

**18 March 2015**  
IAP meeting for the  
Bachelor of IT  
(Information Systems)  
(Hons.)





**19 March 2015**  
IAP meeting for the Bachelor of Computer Science (Software Engineering) (Hons.).

**27 March 2015**  
IAP Meeting for the Bachelor of Computer Science (Systems & Networking) (Hons.).



**26 April 2015**  
Aturkreatif 2015 Champion.

**15 May 2015**  
CS/IT Alumni Reunion.







**12 June 2015**  
COIT Students' Appreciation Day.



**10 July 2015**  
Iftar with the orphanage.



**7 August 2015**  
Animation Masterclass conducted by Les' Copaque's senior staff.

**18-19 August 2015**  
The International Symposium on Agents, Multi-Agent Systems and Robotics (ISAMSR 2015).



## COIT Award Winners For FY2014/2015

SEOUL INTERNATIONAL INVENTION FAIR (SIIF 2014) 27 NOV - 2 DEC 2014		
Silver	Dr. Norziana Jamil	A Lightweight Configurable Crypto IP Core
Silver	Izyana Ariffin	Mobile Application For Facilitating Asset Management Of Electricity Supply Industry
Silver	Sera Syarmila Sameon	Architecture Of A Secure Communication Over Gsm Network For Mobile Application
Bronze	Assoc. Prof. Dr. Mohd Zaliman Mohd Yusoff	Stress Treatment Using Virtual Reality Technology
ITEX2015		
Gold	Assoc. Prof. Dr. Manjit Singh Sidhu	Simulation And Prediction System Of A Spur Gear Design
Gold	Dr. Norziana Jamil	Cell Phone Parental Monitoring System
Gold	Muhammad Sufyian Mohd Azmi	Smart 2D-QR Shopping With Augmented Reality Enhancement
Silver	Prof. Dr. Mohd Sharifuddin Ahmad	A Task-Oriented Autonomy-Adjustable Drone For Multi-Purpose Aerial Operations
Bronze	Dr. Mohammed Azlan Bin Mohamed Iqbal	Chesthetica: The World's Most Advanced Automatic Chess Problem Composer
PRIVATE EDUCATION EXCELLENCE AWARDS 2015		
"National Outstanding Innovator Award (ICT Category)" – Assoc. Prof. Dr. Manjit Singh Sidhu		
Commendation of Selected Award Finalists Dr. Nor'ashikin Ali Dr. Norziana Jamil		
TNB INNOVATION AWARDS 2015		
Grand Prize Winner for Theme 3 Inculcating Innovation Culture in TNB	Assoc. Prof. Dr. Mohd Zaliman Mohd Yusoff Dr. Mohd. Azmi Yusof Dr. Mohd Ezanee Rusli	VR-Based Neuro-Stress Therapy For TNB Managers
Top 5 for Theme 1: Enhancing Customer's Experience	Muhammad Sufyian Mohd Azmi	TNB Smart 2D-QR Payment
iRMC AUTHOR OF THE MONTH AWARD – AUGUST 2015		
Prof. Dr. Mohd Sharifuddin Ahmad		





**COLLEGE OF  
GRADUATE STUDIES  
(COGS)**



## COLLEGE OF GRADUATE STUDIES (COGS)

### Introduction

College of Graduate Studies started in 1999 and is committed to provide the highest standards of academic excellence in graduate studies through research innovation and industrial collaboration in the field of engineering, information technology and business studies. There are 20 postgraduate academic programmes at master and doctorate levels that are currently offered in collaboration with College of

Engineering, College of Information Technology and College of Business Management and Accounting. The types of programmes offered include full research, mixed mode and coursework.

To date, there are about 854 students enrolled at the College of Graduate Studies. The college is assisted by 9 Administrative Staff and 7 Programme Coordinators.

### Highlights of Activities

#### Reaching Out to Potential Students



**7-8 February 2015**  
Postgrad Asia Exhibition, KLCC



**7-8 February 2015**

JPA4U Sponsorship Carnival & Education Fair at MAEPS Convention Centre, MARDI Headquarters, Serdang





**7 March 2015**  
Open Day UNITEN 2015 Administration Building, UNITEN

### Knowledge Sharing Activities



**8-9 April 2015**  
Natgrad Student Conference 2015 Hosted By COGS



**1 July 2015**  
Briefing on Postgraduate Opportunities in UNITEN, TNBR Auditorium



**31 July 2015**  
Graduate-On-Time Activity at COGS, UNITEN





**TEACHING &  
LEARNING CENTRE  
(TLC)**

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## TEACHING & LEARNING CENTRE (TLC)

### Introduction

In order to ensure continuous enhancement of the quality of teaching and learning at UNITEN, TLC offers a wide range of opportunities for the academic staff to improve their professional skills towards becoming effective educators informed by current pedagogical trends.

Among the short courses outlined for the following year include "Assessment, Evaluation and Measurement" by UPM experts, a workshop to revise UNITEN students' evaluation of lecturers and short courses like "NLP", "MOOC", "Flipped Teaching" and other innovative teaching approaches.

### Highlights of Activities

#### a. Professional Development Unit

##### i) In-service Training

This sub-unit conducts Postgraduate Diploma in Education that comprises:

- Phase I
- Phase II
- Phase III

No.	Workshops Conducted by In-Service Training Unit	Date
1.	Research Applications in Teaching and Academic Writing	29 Aug-14 & 12 Sep-14
2.	Classroom Management	7 Nov-14 & 21 Nov-14
3.	OBE/SLT	16 Jan-15 , 27 Feb-15, 27 Mar-15 & 17 Apr-15

##### ii) Enrichment Training

This sub-unit organizes and provides workshops and short courses for lecturers who are keen to enhance their teaching skills and enrich pedagogical knowledge. Courses offered range from strengthening teaching methods and approaches with theoretical-based training to updating lecturers with innovative IT applications that can aid teaching and learning.

No.	Workshops Conducted by Enrichment Training Unit	Date
1.	SuKSeS	7 Nov-14
2.	Induction Course for Beginner Lecturers	7 Nov-14 & 21 Nov-14
3.	Academic Record Keeping for Lecturers	16 Jan-15 , 27 Feb-15, 27 Mar-15 & 17 Apr-15
4.	OBE	21-22 Apr-15
5.	PSS for Beginner Lecturers	31 Jul-14



### b. Inspectorate Unit

The Inspectorate Unit monitors the quality of teaching and learning for UNITEN both at Putrajaya and Muadzam campuses. Lecturers' quality of teaching is measured via online student evaluation at the end of every semester. The overall performance of all UNITEN lecturers is presented and discussed in the following semester by UNITEN Teaching and Learning committee chaired by the Deputy Vice Chancellor of Academic and Research.

Students' academic performance is measured via course assessments and is often discussed within the view of respective lecturers' teaching quality. Students' performance is monitored and reviewed by UNITEN Teaching and Learning committee every mid-semester for remedial actions before the final examination.

### c. Education Innovation Unit

The Education Innovation Unit has been established to focus on technological and innovative ways to assist academic staff of UNITEN in managing their day-to-day teaching processes. Workshops and short courses offered by this unit relate to innovations of educational technology including Moodle as the Learning Management System at UNITEN. The unit also promotes enhancement of learning environments using digital tools.

### d. Policies & Quality Unit

The Policies and Quality Unit supports UNITEN overall quality initiatives from the standpoint of the Teaching and Learning Centre as one of UNITEN's business unit. The unit oversees and manages university requirements in order to comply with new or existing quality framework and submits reports periodically.



Induction Course for Beginner Lecturers



Participants for New Academic Staff Workshop

### e. Professional Support Unit

The Professional Support Unit provides close guidance for both lecturers and students mainly using counselling and psychological approaches. One of the programmes planned under this new unit is the Mentoring Programme. There are three phases to this programme. They are:

- Phase 1 – Trainer to Lecturer (Teacher Mentoring)
- Phase 2 – Lecturer to Student (Academic Mentoring)
- Phase 3 – Analysis of final semester/ trimester exams.

Thus far, Phase 2 of lecturer-to-student academic mentoring has been conducted on a regular basis to help students with low CGPA.

No.	Programmes	Lecturer
1.	Academic Mentoring (Physics III – PHYF 144)	Rogemah
2.	Academic Mentoring (MATF 126 & MATF 125)	Umi Kalsom
3.	Academic Mentoring (Chemistry I – CHEF 114)	Amira Raihana
4.	Academic Mentoring Diploma (MATD114, 123 & 213 MEHD214, MEMD124, PHYD114)	Ahmad Rafiq

The following programmes were conducted at Muadzam Shah Campus:

No.	Programmes	Lecturer
1.	Academic Excellence (Diploma & Foundation)	Mohd Hafis
2.	Mind Bleaching	Nur Hidayah
3.	Series of Clinic & Help Class	
4.	Series of MUET Workshops	
5.	Advising Session	

#### f. Outcome Based Education Unit

The OBE Unit is responsible for ensuring full and smooth implementation of the OBE curriculum approach at UNITEN. Activities carried out in FY14/15 are as follows:

No.	Programmes	Date
1.	OBE Steering Committee (OBESC) Workshop	21 Apr 2015
2.	OBE Technical Committee (OBETC) Workshop	22 Apr 2015
3.	OBE briefing @ COGS APR	5 May 2015
4.	PAPAR workshop @ CFGS	4 Sep 2015
5.	OBEOS workshop for Unit Bahasa CFGS	11 Sep 2015





**INNOVATION  
& RESEARCH  
MANAGEMENT  
CENTRE (iRMC)**

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**CENTRES OF  
EXCELLENCE  
(IEPRe , PEC, CRE)**

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## INNOVATION & RESEARCH MANAGEMENT CENTRE (iRMC)

### Introduction

Aspired in growing to be a research-led university, UNITEN has given due emphasis to innovation and research. Accordingly, the Innovation and Research Management Centre (iRMC) is responsible to provide a proper mechanism and research management system which can effectively and efficiently translate mission into operation.

### Objectives

- To provide a dedicated unit that can focus and be fully accountable for all matters related to the management of research activities in UNITEN.
- To enhance and strengthen UNITEN's commitment, infrastructure and management framework towards fostering further innovation and research culture.

iRMC is dedicated to support UNITEN to be a leading global energy university that shapes a sustainable future. Currently, UNITEN is recognized as a leading Energy University as evidenced from the numerous grants awarded to its researchers.

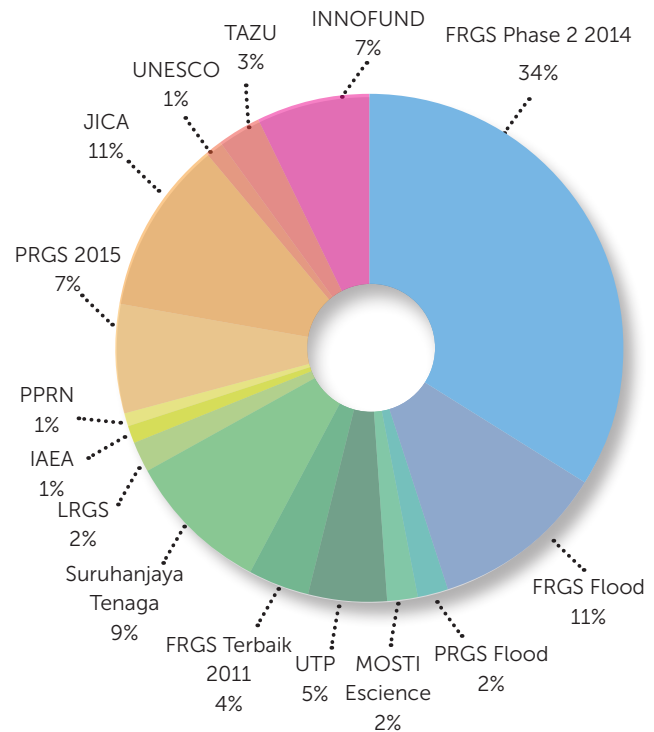
### Highlights of Activities

In 2015, UNITEN was audited by a panel of auditors from the Malaysia Research Assessment Instrument (MyRA). It is essential to have such an audit exercise in order to obtain recognition for achievements made in the area of research. The panel of auditors was led by Dato' Prof. Mohamed Isa Abdul Majid with three other panel members - Dato' Prof. Dr. Abu Bakar Salleh, Prof. Dr. Mohd Adzir Mahdi and Prof. Dr. Rosalina Abdul Salam.

UNITEN was the seventh private university to be audited for excellence, which serves as an indicator for benchmarking purposes. A total of nine components were evaluated by MyRA. The components include:

### Malaysia Research Assessment

- (1) General information of the university
- (2) Quantity and quality of researchers
- (3) Quantity and quality of research
- (4) Quantity of postgraduates
- (5) Quality of postgraduates
- (6) Innovation and products
- (7) Professional services
- (8) Networking and linkages
- (9) Support and facilities



Breakdown of RM4 Million External Funds Secured





7-8 February 2015 MyRA Audit

## Exposition Award Winners

### Malaysia Technology Expo 2015 ( 14 – 16 February 2015)

Awards won at the event:

Medal	Participants	Project Name
MTE SPECIAL AWARD & GOLD	Assoc. Prof. Dr. Manjit Singh Sidhu	An Enhanced 3D Interactive Multimedia Problem Solving Tool For Relative Motion Analysis Using Rotating Axes Approach
GOLD	Assoc. Prof. Dr. Mohd Azree Bin Idris	Toilet Flushing Cistern With Tipping Point Mechanism
GOLD	Dr. Wong Leong Sing	Microbial Crystallization In Block Revetment For Sustainable Defense Against Coastal Erosion
SILVER	Dr. Hajjah Mastura Johar	Stress Therapy: Intervention Of Senamseri™ Low Impact Dance Movement
SILVER	Assoc. Prof. Dr. Hanim Salleh	V-Gen III : Hybrid Tunable Energy Harvester For Self-Powered Sensor
SILVER	Dr. Mohd Ezanee Rusli	VR-Based Technology And Immersive Environment For Neuro-Stress Therapy
BRONZE	Dr. Ahmed Hussien Birima	Extracting A Green Coagulant From Natural Plant For Treatment Of Surface Water
BRONZE	Dr. Farah Hani Bte. Nordin	Incipient Fault Identification Using SVM And GAFS Through RF Emission Of Airconditioners
BRONZE	Dr. Gasim Hayder Ahmed Salih	Green Biomedica
BRONZE	Dr. Abreeza Noorlina Bte. Abd. Manap	Improved Method To Repair Defective Molds Using Cold Spray Technique
BRONZE	Assoc. Prof. Dr. Mohd Sharifuddin Ahmad	A Multi-Purpose Adjustable Autonomous Air Drone
BRONZE	Dr. Md Ashrafal Alam	Embedded Connectors For Optimal Retrofitting Of Reinforced Concrete Structure
BRONZE	Dr. Badariah Solemon	ASSETTRCKR: Mobile Application For Facilitating On-Site Asset Registration & Tracking
BRONZE	Assoc. Prof. Dr. Rusinah Bte Siron	The Green Leadership Model For Malaysian Government Institutions



Malaysia Technology Expo 2015 (MTE 2015)

## 26th International Invention & Innovation Exhibition (ITEX 2015) (21-23 May 2015)

The list of winners are as follows:

Medal	Project Leader	Invention
GOLD	Adzly Anuar	Multipurpose assistive rehabilitative walker for children with cerebral palsy
GOLD	Assoc. Prof. Dr. Manjit Singh Sidhu	A Spur Gear Design System For Making Prediction And Analysis
GOLD	Dr. Norziana Jamil	Remote Parental Monitoring System For Mobile Devices
GOLD	Dr. Firas B. Ismail Alnaimi	An Intelligent Multi-Functional Retractable Pipeline Inspection Gauge
GOLD	Intan Nor Zuliana Baharuddin	Power Infrastructure Communities Advancing Resilience Toolkit Integrated System (PICARTIS)
GOLD	Muhammad Sufyian Mohd Azmi	Smart 2D-QR Shopping With Augmented Reality Enhancement
SILVER	Dr. Nazaruddin A. Rahman	Fault Detection And Accommodation Of UAV Control Surface
SILVER	Dr. Mohamed Ansari	Synthesis Of Green Graphene Using Waste Palm Oil
SILVER	Assoc. Prof. Dr. Mohd Sharifuddin Ahmad	A Task-Oriented Autonomy-Adjustable Drone For Multi-Purpose Aerial Operations
SILVER	Wan Mohammad Taufik Wan Abdullah	MYCRAT: Malaysian Corruption Risk Assessment Tool
SILVER	Assoc. Prof. Dr. Mohamed Ahmed Hafez	Construction Economical Floating Breakwater Using Scrap Tyres With Revetment
BRONZE	Dr. Aidil Azwin Bin Zainul Abidin	Intelligent Fuzzy Logic Relay Using Fuzzy Logic For Time Delay Determination
BRONZE	Dr. Nur Irfah Mohd Pauzi	Intelligent Settlement Prediction Using Monte Carlo Simulation (I-SPMCS) At Dumping Area In Malaysia
BRONZE	Dr. Yasmin Hanum Md Thayoob	A Novel Condition Assessment System For Water Tree In XLPE Cable
BRONZE	Dr. Mohammed Azlan Bin Mohamed Iqbal	CHESTHETICA: The World's Most Advanced Automatic Chess Problem Composer



International, Invention, Innovation and Technology Exhibition (ITEX 2015)



## TNB Open Innovation Contest Award 2014

No.	Award	Recipient	Invention
1.	Grand Prize Winner	Assoc Prof Dr. Mohd Zaliman Mohd Yusoff	Theme 3: Inculcating Innovation Culture in TNB. His project title is 'A Work Stress Therapy for TNB Managers'
2.	Top Five Winner	Mohd Sufian Abd Karim	Theme 3
3.	Top Five Winner	Prof Dr. Chandan Kumar Chakrabarty	Theme 1
4.	Top Five Winner	Muhammad Sufyan Mohd Azmi	Theme 1



TNB Open Innovation Contest Award 2014

## Seoul International Invention Fair (SIIF)

Medal	Project Leader	Invention
GOLD	Dr. Firas Basim Ismail	Novel Design Of Smart Pig Robot For Elimination Of Hydraulic Transients' Effects In Oil And Gas Pipelines
GOLD	Dr. Wong Leong Sing	Bio-Engineered Blocks For Sustainable Coastal Protection
GOLD	Muhammad Sufyan Mohd Azmi	Smart 2-D Store With 3-D Realism Experience
Excellent Invention (The National Research Council of Thailand)	Dr. Hajjah Mastura Johar	Invention Of Senamseri™ A Dance Therapy For Stress Copping

## The 14th International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2015)

### GOLD

Project Leader	Invention	College
Dr. Normy Norfiza Abdul Razak	Design, Safety and Efficacy of an MPC Glycemic Controller in a High-Rate Occupancy ICU.	College of Engineering
Dr. Sivadass Thiruchelvam	Development of a Collaborative Decision Making Model for Flood Disaster Management Using Structural Equation Modelling.	College of Engineering

## Talks and Workshops

A total of 15 talks and workshops were organized by iRMC in 2015 to promote journal writing and research grant application among staff. Esteemed speakers who

were invited to give the talks include Prof Latif Ahmad from USM and Prof Akagi from Japan.

No.	Programmes
1.	7 Habits Of Highly Effective Researcher
2.	FRGS: Writing A Winning Research Proposal
3.	Kick-Off Meeting: Research Management
4.	Flood Disaster Management Proposal Workshop
5.	PRGS Research Proposal Workshop
6.	Seminar On MOHE Grants FGRS 2015-1
7.	Talk On CREST R&D Grant
8.	Commercialization Knowledge Sharing Session
9.	MOSTI Science Fund Talk
10.	International Exposition Expo Briefing
11.	2015 ISI Workshop Series 1
12.	Bringing Centres to HiCOE Status
13.	International Grant Newton-Ungku Omar Fund
14.	A future In Research Collaboration
15.	2015 Research Seminar Series with Prof. Akagi



Bringing Centres to HiCOE Status



Briefing on "Commercialization Knowledge Sharing Session"



## CENTRES OF EXCELLENCE INSTITUTE OF ENERGY POLICY & RESEARCH (IEPR)

### Introduction

The Institute of Energy Policy and Research (IEPR) has been in operation for 6 years and has transformed itself into one of the three centres of excellence at Universiti Tenaga Nasional. IEPR focuses on six areas namely Energy Economics, Energy Security, Energy Policy, Energy & Environment, Energy & Social Sustainability and Energy Supply Industry as shown in the figure below:

#### ENERGY ECONOMICS

- Economics of Fuel Supply Chain Management.
- Modelling Competitive Pricing Mechanism of Energy Source.
- Economics of Renewable Energy versus Conventional Fossil Fuel.
- Optimal Fuel Mix.

#### ENERGY SECURITY

- Long Term Energy Planning.
- Alternative Fuel Mix/ Procurement/ Transportation.
- Fuel Mix in Power Generation.
- Coal Supply Chain Management.
- Logistic of Fuel Management.

#### ENERGY POLICY

- Regulatory Framework Towards Sustainable Development.
- Supply and Demand Side Management.
- Deregulation of Energy Market.
- Renewable Energy and Energy Efficiency.

#### ENERGY & ENVIRONMENT

- Sustainable Development and Climate Change Study.
- Low Carbon Economy.
- Efficient Transport Sector.
- Waste Management.
- Greenhouse Gas Inventory.
- Green Technology

#### ENERGY & SOCIAL SUSTAINABILITY

- Green Economy.
- Social Policy Research.
- Social Transformation Towards Sustainable Communities.

#### ENERGY SUPPLY INDUSTRY

- Energy Market.
- Auxiliary Services.
- Capacity Market.
- Net Energy Metering.
- Cross Border Energy Trading.

IEPR has received strong support mainly from Tenaga Nasional Berhad, also the Energy Commission, the Ministry of Energy, Green Technology and Water and the Ministry of Natural Resources and Environment. Grants have focused mainly on directed research, capacity building and sharing of industrial experiences.

#### Research under the Chair in Energy Economics Funding

In 2015, IEPR received RM1,297,200.00 funding for the Chair in Energy Economics operation and capacity building. The capacity building program at IEPR has benefited government staff, students enrolled in post-graduate programs, UNITEN researchers and associate researchers at IEPR. In the same year, IEPR also completed 5 consultancy projects worth RM1,828,476.00. Reports from these projects have benefited clients from government agencies, utility companies, industries and academicians.

Currently, IEPR operates with the assistance of fellow researchers from the four colleges in UNITEN on 2-year term. These researchers are guided by the Chair in Energy Economics of Energy Commission at UNITEN.

## Highlights of Activities

### Project Collaboration and Networking



IEPre delegates attending project discussion at the Institute of Energy Economics Japan, Tokyo.



IEPre participation in UNITEN cross business units management meeting.



Prof. Rashid attending project discussion at Academy Science Malaysia.



Prof. Rashid attending the meeting of Energy Research Institute Network and workshop in Brunei.



IEPre and EC project meeting at the Energy Commission (EC) office, Putrajaya.



Researchers from IEPRe and Economics Research Institute for ASEAN and East Asia meet at IEPRe office.

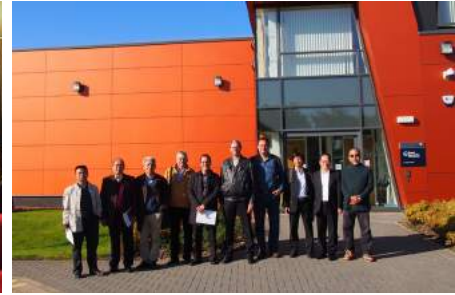




Project meeting among researchers from the Universiti Teknologi Malaysia, Universiti Tenaga Nasional and Kyushu University.



Delegates from IEPRe attending the forum on "GDP Growth Through Renewable Energy" at KLCC.



Visit to University of Strathclyde Smart Grid Demostration Network in Cumbernauld, Scotland.



IEPRE representative at the discussion on MoU between UNITEN and University of Strathclyde, Scotland.

### Capacity Building and Staff Development



Visit to Sabah Electricity Sdn. Bhd (SESB).



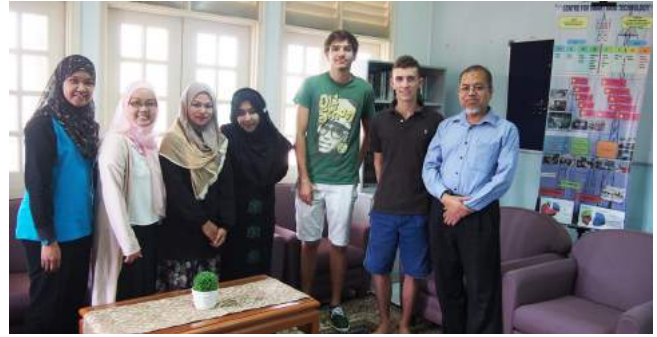
IEPRE delegates attending a technical visit at Institute for Energy and Environment, University of Strathclyde, Scotland.



Visiting scholar from University of St. Andrew presenting her research progress to IEPRe committee.



Talk organized by IEPRe on the Renewable Energy Market in New Zealand by Chair in Energy Economics from University of Auckland, New Zealand to the Energy Commission.



Meeting between IEPRe staff and interns from ESIGELEC, France.

## POWER ENGINEERING CENTRE (PEC)

### Introduction

PEC has established expertise and capabilities related to research and consultancy in areas of power systems particularly in power quality, distribution systems planning, power system stability, and application of artificial intelligence and communication technologies in power systems.

The centre has collaborated extensively with TNB Research to carry out power system studies and applied research projects which bring benefits to our clients from TNB Generation, Transmission and Distribution Divisions. The projects are related to areas such as Power Quality Monitoring, Dynamic Rating of Transmission

Lines, Technical Losses Estimation, Distribution Network Planning, Load Modelling, Energy Utilization, and ICT/AI application in Power Systems and Smart Grid.

PEC professors and researchers are also involved in developing engineering solutions in the form of software which enhances work efficiency and productivity. Some of these softwares are Technical Losses Estimation Software for Distribution Systems, Value Based Distribution Planning Project Assessment Software, and Electricity Fraud Detection Software.

### Consultancy & Research Projects Output

Number of Consultancy Projects	34
Total Value of Consultancy Projects (RM)	2,632,770.00
Total Number of Technical Report	30
Number of Paper Publication	8



## Highlights of Activities



Power Quality Measurements on New ETS for KTMB.



Reactive Power Planning for TNB Transmission & Distribution System.



Knowledge Sharing by Energy Expert from New Zealand.



Knowledge Sharing on Smart Grid, University of Sydney.



Energy Audit on Menara Seri Wilayah Building.



Discussion with TNBR & TNBD.

## CENTRE FOR RENEWABLE ENERGY (CRE)

### Introduction

The Centre for Renewable Energy (CRE) was established in August 2008 as a one-stop-centre for research and development in renewable energy and was formally institutionalized as a Research Centre of Excellence (CoE) in UNITEN on 21 March 2012.

The core of CRE strategic direction is on research and development programmes mainly in renewable energy such as bio-diesel, co-combustion, studies micro-hydro, photochemical cells, hybrid energy harvesting system, fuel additives for diesel engines, catalyst for biodiesel reactor, enzymatic reaction for bio-fuels, biogas from waste materials, bio-hydrogen for fuel cell and automotive application, and solid bio-fuel briquette from oil palm mill solid wastes.

CRE has established its core strength through continuous, innovative and excellent research achievements and provides a sustainable platform for strategic partnerships the authority and industry with the academia.

CRE also has an important role in the UNITEN Green Campus initiative. CRE has produced biodiesel for UNITEN transportation fleet using the process developed by the biodiesel research group for Diesel-B5 (Diesel with 5% Biodiesel). The Biodiesel produced from waste cooking oil is collected from all restaurants and food-courts on UNITEN campus and from UNITEN staff. CRE has over 30 completed projects and 9 on-going projects which are mainly funded by UNITEN, TNB, AAIBE, MoHE and MoSTI. CRE has made collaborations with various international organizations such as University of Leeds (UK), Cardiff

University (UK), Aachen University of Applied Science (Germany), McGill University (Canada), The Energy and Resources Institute (India), University of South Wales (UK)

and Indiana University-Purdue University Indianapolis (USA). CRE is also the host for the Malaysian branch of the Energy institute (UK).

## Highlights of Activities

No.	List of Colloquium Series	Date
1.	(Series 8) Modified EFB Performance on European Gasification Devices	17 February 2015
2.	(Series 9) Uni10 Energy Waste Cooking Oil Awareness Program, UNITEN Biodiesel Program and Biodiesel Pilot Plant	18 March 2015
3.	(Series 10) Innovative Japanese Technologies for Waste-to-Green Product Conversion	24 April 2015
4.	2nd day Training on Gas Chromatography: Fundamental, Applications & Practical Approach	20 - 21 May 2015
5.	(Series 11) The Future of Urban Waste Management by Pink Energy	12 June 2015



Training on Gas Chromatography: Fundamental, Applications & Practical Approach.



Colloquium Series 8  
Modified EFB Performance on European Gasification Devices.



Colloquium Series 9  
Uni10 Energy Waste Cooking Oil Awareness Program, UNITEN Biodiesel Program and Biodiesel Pilot Plant.



Colloquium Series 12  
Renewable Energy from and for Agriculture.



Colloquium Series 13  
Thin-Film Solar Cell and Solar Charge Controller Development for Smart Energy Harvesting.





**STUDENT AFFAIRS  
CENTRE  
(SAC)**

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## STUDENT AFFAIRS CENTRE (SAC)

### Introduction

The Student Affairs Centre (SAC) was set up to create and support an ideal and conducive environment for student development while looking after the welfare of students. The SAC also handles all matters pertaining to sports and cultural activities, and provides sport facilities for UNITEN students. Co-curricular activities play a vital role in providing a variety of options within the university environment so that all students can find educational pathways that match their individual preferences and abilities. Through participation in these activities, students are able to develop and expand their interests and skills beyond the norm, giving them the

opportunity to enrich their lives by experiencing activities and developing skills and talents. The co-curricular activities encompass all activities that are held outside of campus which are sometimes held in collaboration with other private organisations. Students are encouraged to join and organize their activities through the clubs and societies. There are various indoor and outdoor activities such as seminars, forums, sports and cultural programmes, competitions and recreational activities. These activities can enhance their leadership qualities as well as soft skill competencies which will be useful in their careers.



Selfie Run



Cultural Festival



Program Pintar 2015  
Kuala Nerang, Kedah





Enactus 2015

Huffaz Conference



Aidilfitri Contribution & Hope For Homeless

Hockey Tournament MRSM 7 Sebelah Piala UNITEN 2015



Written Test for Referees MHC 2015



Halal Festival



Caps for Change





**TABUNG AMANAH  
ZAKAT UNITEN  
(TAZU)**

**YAYASAN  
CANSELOR  
UNIVERSITI TENAGA  
NASIONAL  
(YCU)**

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## TABUNG AMANAH ZAKAT UNITEN (TAZU)

### Introduction

UNITEN and Lembaga Zakat Selangor (LZS) signed a Memorandum of Agreement (MoA) on 2nd September 2010 to appoint UNITEN as Assistant of Amil and launch the Tabung Amanah Zakat UNITEN (TAZU). Based on the agreement, TAZU is allowed to implement collection and distribution of Zakat in UNITEN within the terms and conditions of Lembaga Zakat Selangor (LZS). UNITEN is the first Private Higher Education Institution which is entrusted by LZS to operate as an Assistant Amil for LZS.

The collection and distribution of Zakat is not the individual's responsibility, but refers to the responsibility of the authority entrusted with the matters of Islam from the Islamic community. This is the practice shown by Rasulullah (saw) and the khalifah who appointed Zakat officers during Caliphate era. In Selangor, Lembaga Zakat Selangor (LZS) is the organisation responsible for the welfare of the Islamic community by conducting the Zakat system.

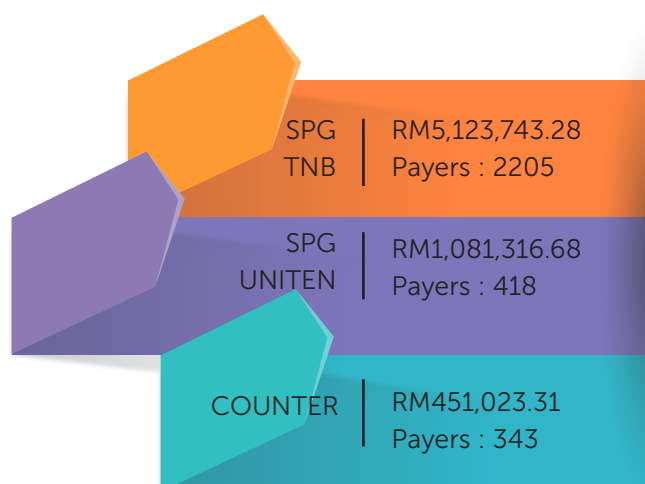
UNITEN has appointed Tabung Amanah Zakat UNITEN Committee, chaired by Vice Chancellor UNITEN, and Disbursement of Zakat UNITEN Committee, chaired by Deputy Vice Chancellor (Academic & Research) UNITEN

to ensure that TAZU manages and regulates all matters in a transparent manner with regard to collection, administration and distribution of Zakat.

Achievements of TAZU can be highlighted into two categories which are collection and disbursement of zakat.

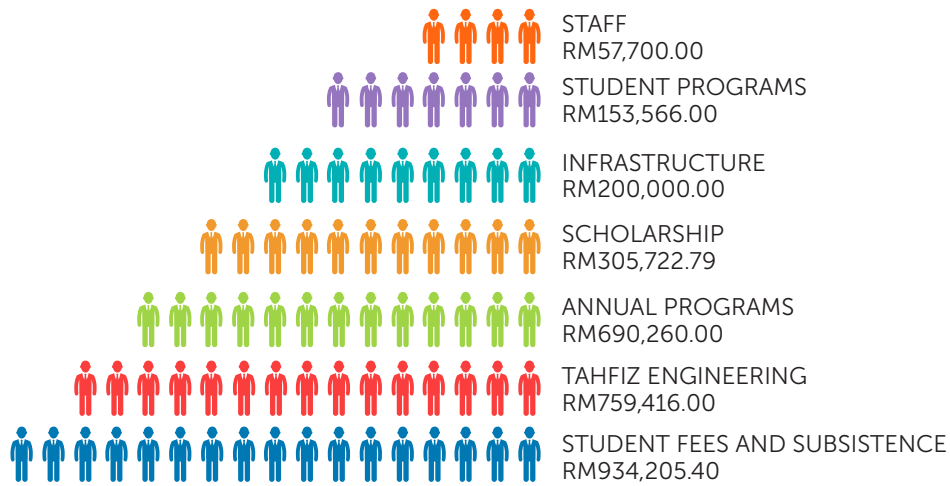
Zakat payment can be made by Monthly Scheme Deduction (SPG) or payment at TAZU counter. All Muslims can pay zakat at the counter which is located at ground floor of Masjid UNITEN. Nevertheless, only UNITEN and TNB staff can pay zakat via salary deduction. Mode of payment through counter is by cash, cheque, credit card and debit card. Total collection within five years (2010-2015) has steadily increased every year since September 2010. However, TAZU still organizes dakwah and marketing programs to raise awareness and increase the collection of zakat.

The collection of zakat in UNITEN through counter and salary deduction scheme from September 2014 until August 2015 was RM6,654,082.27.





## ACHIEVEMENT : DISBURSEMENT OF ZAKAT



**Total of Disbursement : RM3,100,870.19**

### 1. ASNAF FAKIR

Definition : *Asnaf Fakir* is one who has neither material possessions nor means of livelihood.



#### STUDENT

Fees & subsistence : RM229,182.00

#### PROGRAM

*Saguhati Hari Raya* : RM190,700.00  
*Sedekah Ramadhan* : RM12,000.00

**Total distribution for *Asnaf Fakir* : RM431,882.00**

## 2. ASNAF MISKIN

Definition : *Asnaf Miskin* is one with insufficient means of livelihood to meet basic needs.



### STUDENT

Fees & subsistence : RM291,390.00

### PROGRAM

Subsistence : RM15,000.00

**Total distribution for *Asnaf Miskin* : RM306,390.00**

A maximum rate for fees is RM8,000.00 and subsistence is RM1,000.00 per person for one semester. Fee is paid directly to UNITEN finance department, and subsistence is given to students and staff by cheque.

## 3. ASNAF FISABILILLAH

Definition : *Asnaf Fisabilillah* literally means 'In the way of God', and is used for Jihad.



### STUDENT

Fees & subsistence : RM411,633.40

### STAFF

Education Assistance: RM41,700  
Emergency Assistance: RM1,000.00

### GENERAL

Tahfiz Engineering : RM759,416.00  
Infrastructure : RM200,00.00  
Sponsorship for programmes organized by student societies and staff : RM153,566.00

- *Dermasiswa Pelajar Cemerlang* RM313,600.00

- *Anugerah Industri Graduan UNITEN* RM33,00.00

- *Seminar Kewangan Mahasiswa* RM18,660.00

- *Jejak Sahabat Prihatin* RM65,900.00

- *Bantuan Persekolahan Anak-anak* RM20,400.00

- *Bantuan Pelajaran Anak di IPT* RM8,200.00

- *Iftar Perdana* RM27,800.00

**Total distribution of *Asnaf Fisabilillah* : RM2,360,598.19**

*Asnaf Fisabilillah* records the highest category of zakat recipients compared to *Asnaf Fakir & Miskin*. In terms of student fees, TAZU offers financial assistance for students who do not get full sponsorship from other sponsorship

bodies such as PTPTN. Therefore, TAZU will contribute fees up to RM3,000.00, or subsistence allowance up to RM400.00 or both of that to support students' needs for one semester. TAZU also encourages UNITEN staff



to further studies by providing education assistance as much as RM41,700 for 72 staff to support their fees. For this financial year, various of programs have been organized to help students and staff who are categorized as middle class. Total distribution of the programs was RM690,260.00

In 2015, disbursement of *Asnaf Fisabilillah* was for Tahfiz Engineering program. TAZU provided full scholarship for 9 students and scholarship to 166 students.

Students who get 10As in SPM are qualified to get the scholarship of TAZU. They have to maintain at least 3.0 CGPA in academic and tahfiz in order to continue with the scholarship. Otherwise, they will not be eligible for scholarship. In terms of Dermasiswa, TAZU sponsors student fees for Pensijilan and Diploma Tahfiz.

#### 4. ASNAF IBNUSSABIL

Definition : One who is stranded in journey.

Total distribution of *Asnaf Ibnussabil* : RM307,722.79

Application for zakat among international students is only available for emergency cases that is endorsed by Dean of college. In 2015, TAZU provided scholarship to 25 international students worth RM305,722.79.

## COLLECTION OF ZAKAT

### Types of zakat :

- Income
- Saving
- EPF
- Shares
- Trade and Business
- Gold
- Silver

### Mode of payment

- Monthly deduction scheme / Skim Potongan Gaji (SPG).
- Counter : Cash, cheque, credit card and debit card.

## DISBURSEMENT OF ZAKAT

Students : Zakat application for students is opened every semester within one month. TAZU will inform all Muslim students via email to visit [www.amanahuniten.my](http://www.amanahuniten.my) when the application opens.

Staff : Zakat for staff can be applied anytime on the website [www.uniten.edu.my](http://www.uniten.edu.my). Application can be made once a year.

Application for zakat through programmes organized by TAZU will be open to students and staff.



### STUDENT

*Bantuan Musafir*  
RM2,000.00

### PROGRAM

Scholarship AIU  
RM305,722.79

## YAYASAN CANSOLOR UNIVERSITI TENAGA NASIONAL (YCU)

### Introduction

Yayasan Canselor UNITEN (YCU) was officially launched by Tuan Yang Terutama Tun Dato' Seri Utama (Dr.) Haji Abdul Rahman bin Haji Abbas, the Chancellor of UNITEN, on 11th October, 2011. The primary role of YCU is to garner private support and public engagement for the perpetuation and empowerment of educational excellence.

### Objectives

1. To receive and administer funds for the purpose of promoting education of Malaysians or for any charitable purposes.
2. To provide financial assistance for the development of UNITEN buildings and infrastructure for the furtherance of providing quality and affordable education to Malaysians in general and continuously upgrade learning and research facilities at UNITEN in its effort to be a leading university in the area of engineering, information technology, accounting and business management.
3. To invest the excess funds to guarantee cash flows in meeting the objectives, provided the investments are consistent with tax legislation as laid down by the Director General of Inland Revenue Board.
4. To subscribe and to grant donations to local institutions or organizations as approved by the Director General of Inland Revenue Board.

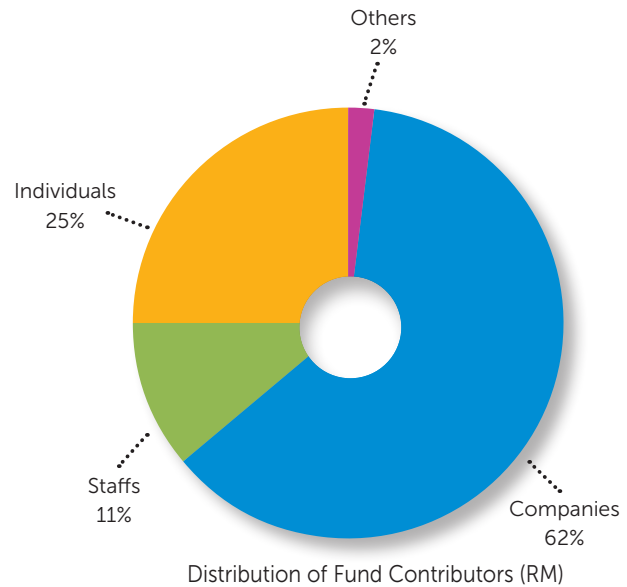
### Highlights of Activities

To achieve the above objectives, YCU focuses its initiatives on the following four areas:

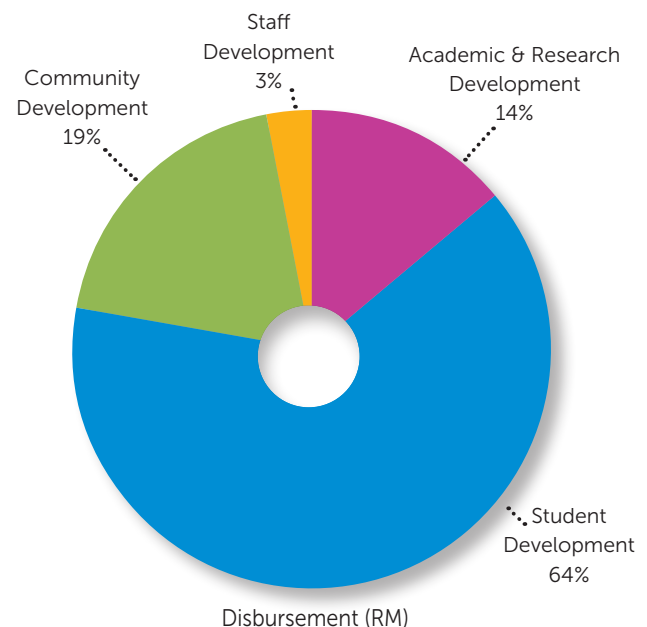
- a) Student Development
- b) Staff Development
- c) Academic and Research Development
- d) Society Development

### Performance

Financial Year	Amount Collected (RM)
2014 - 2015	840,863.00

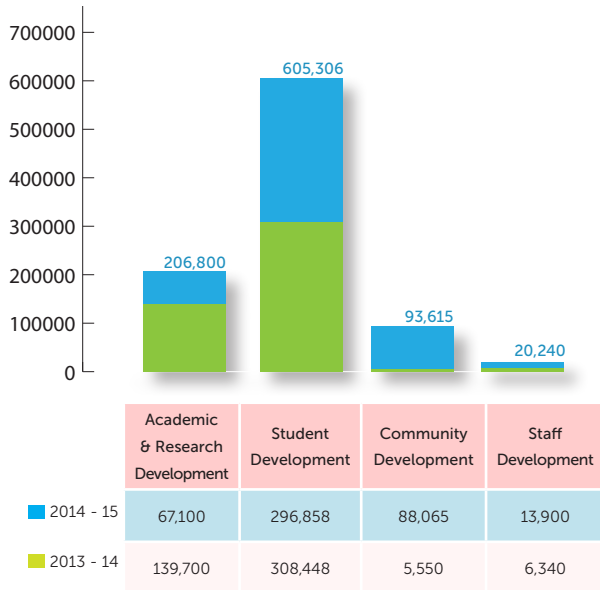


Financial Year	Amount Disbursed (RM)
2014 - 2015	465,923.00





### Cumulative Amount Disbursed for FY 2013/2014 and 2014/2015



### YCU Fundraising Activities

For financial year 2014 - 2015, YCU has successfully organized:

#### Program Bicara Inspirasi Kejayaan

Community service forum organized by YCU with the aim to motivate and inspire Malaysian secondary school students to excel in their lives. This empower Malaysian Youth to take charge of their lives and chart their success.

Heartiest congratulations to our sponsors for supporting the event.

1. Tenaga Nasional Berhad
2. UNITEN R&D Sdn Bhd
3. Malakoff Corporation Berhad
4. TNB Integrated Learning Solution
5. Selayang Shipping Sdn Bhd
6. Permodalan Nasional Berhad
7. ZHL Engineers Sdn Bhd
8. Yayasan Tenaga Nasional
9. Relbon Asia Sdn Bhd
10. TNB Repair And Maintenance Sdn Bhd
11. Q Express Line Sdn Bhd
12. Lembaga Zakat Selangor

Heartfelt appreciation also goes to the panelists and speakers who helped to ensure the success of the programme.

- Bicara Inspirasi Kejayaan  
Speaker : Y.Bhg. Tan Sri Muhammad Ali Hashim
- Forum Inspirasi Kejayaan  
Moderator : Ahmad Fedtri Yahya  
Panel : YBhg. Tan Sri Dato' Academician  
Ir. Dr Ahmad Zaidee Laidin  
Prof. Dr. Abdul Latif bin Ahmad  
Prof Madya Dr. Hanim Salleh



Inspiring Session by Y.Bhg. Tan Sri Muhammad Ali Hashim



Forum Inspirasi Kejayaan

Bicara Inspirasi Kejayaan 2015







**SPONSORSHIP,  
CAREERS &  
ALUMNI  
(SCA)**

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## SPONSORSHIP, CAREERS & ALUMNI

### Introduction

The Sponsorship Unit strives to facilitate and assist students who require financial assistance in matters pertaining to loans, scholarship or sponsorship during the period of study at UNITEN. Acting as an intermediary, the Centre also disseminates sponsorship information, tools and advice. The sponsorship awards go to students who meet the requirements of sponsorship which include academic performance, co-curriculum and personal attributes. Over the years, the unit has been building strong relationships with major sponsors such as Yayasan Tenaga Nasional (YTN), Perbadanan Tabung Pendidikan Tinggi Nasional (PTPTN), Jabatan Perkhidmatan Awam (JPA) dan Majlis Amanah Rakyat (MARA).

Other sponsors include Yayasan Khazanah, Yayasan United Engineers (Malaysia) Berhad (UEM) and Independent Power Producers (IPP) such as Segari Energy Ventures, Edra Global Energy Bhd. (Edra), YTL Power, Kuala Langat Power Plant Sdn. Bhd. and international student sponsors like Bolashak Presidential Scholarship and Ministries of Higher Education from Iraq, Yemen and Saudi Arabia.

The Career Unit facilitates and assists students and alumni to be employed upon graduation. Graduating students and alumni are offered career development

seminars, courses and programmes such as resume writing and job interview preparations.

An annual UNITEN Career Fair is conducted every year which includes series of workshops, seminar and talks i.e. career talk by companies, image and grooming, mock interview workshop, walk-in-interview, career forum and exhibition.

The Alumni Unit strives to build lifelong relationship among alumni, students and UNITEN. It develops and maintains a database of UNITEN alumni and is always in regular communication with the alumni via social media and email.

We also highlight achievements of UNITEN Alumni to share their success stories with others. The unit identifies and coordinates with the alumni who would participate in various UNITEN activities, events and programmes as well as in the alumni association and chapters. Our alumni has contributed back to UNITEN in terms of sharing work experience with students in seminars, workshops and knowledge sharing sessions besides collaborating with students to participate in social, sports and academic events, and promoting UNITEN to prospective students and stakeholders.



UNITEN Career Fair



Activities with UNITEN Alumni



A composite image featuring a close-up of two hands shaking in a firm grip, symbolizing a business deal or agreement. The background is a blurred office setting with people in business attire. A large, semi-transparent purple rectangle is overlaid on the right side of the image, containing the text and page number.

**UNITEN INSTITUTE  
OF PROFESSIONAL  
ADVANCEMENT  
(INSPA)**

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## UNITEN INSTITUTE OF PROFESSIONAL ADVANCEMENT (INSPA)

### Introduction

UNITEN Institute of Professional Advancement (INSPA) has been set up to share its experience and knowledge gained from Tenaga Nasional Berhad (TNB) to benefit society at large.

The UNITEN Institute of Professional Advancement (INSPA) is a consultancy arm of the university. With more than 10 years of experience and growing collection of knowledge, INSPA is dedicated to offer a wide-range of training and development solutions within the niche areas of Power engineering, Engineering design, leadership training series, language and communications, Board of Engineers Malaysia top-up program, Business management, occupational safety and health assessment, energy policy, workforce well-being, Farnchise Program and Tahfiz Certificate program.

#### Our Vision

To be a leading training and consultancy services provider.

#### Our Mission

We are committed to deliver high quality training and consultancy services to our customer by capitalizing on our internal expertise and leveraging industrial linkages.

### Scope Of Service

INSPA is the training and consultancy arm of UNITEN. It was established to act as the conduit for the university's dealings with external and internal parties relating to training, consultancy and other collaborative activities.

This is in line with the university's goal to contribute to the well-being of society by conducting high quality

multidisciplinary contract research, training and consultancy services.

#### Training and Short Course

At INSPA, we have a pool of expertise to conduct training and short courses in business management, engineering, language and communications, recreational and health, information technology and safety. Public and organizations can visit our website at [www.uniten.edu.my](http://www.uniten.edu.my) to know more about our programmes.

In addition, INSPA provides in UBS, conversion program from EC to EP approved by Board of Engineering Malaysia (BEM). INSPA offers a wide range of training programmes to cater for a broad range of customers/clients both private and public organizations and across various disciplines.

#### Consultancy

The consultancy services provided by INSPA refer to the provision of professional services to an external party for a fee or other considerations. Such services include research and development related activities. The consultancy services allow the university to create and transfer knowledge and technology to the industry and public. Most of the consultancy services/projects undertaken by INSPA fall into three major disciplines: Business Consulting, Engineering, Information Technology, and other professional services.

NO.	Project Title	Client
1.	Research on Impacts of Floods on TNBDs PMU/PPU/SSUPE and the proposed Mitigation Measures	TNB Research
2.	Measuring Procurement's Performance: Gaining Competitive Advantage Through Supply Chain Management System (SCMS)	Procurement Division (TNB)
3.	Counseling Office Conflict (19-20 Jan 2015)	HR Group, TNB



4.	Computational Protonics with MATLAB	Public IPTA/IPTS
5.	Hazard Identification, Risk Assessment, Risk Control (HIRARC)	SumiSaujana TCM Chemical Sdn Bhd
6.	Boundary Noise Monitoring at Putrajaya Power Station	TNB Generation, Putrajaya
7.	Audiometric Hearing Test Putrajaya Power Station	TNB Generation, Putrajaya
8.	Air Emmission Monitoring at Putrajaya Power Station	TNB Generation, Putrajaya
9.	Franchise Program (Astin College) Semester 2 2014/2015	Anika Asas Sdn. Bhd.
10.	Program Pelajar Cemerlang Fast-Track (PPC-FT) Intake Oktober 2014	JPA & Private
11.	Chemical Safety Training	FELDA Rubber Industries Sdn. Bhd.
12.	Cleaning Dust Collector	TNB Repair and Maintenance Sdn. Bhd.
13.	ICARET 2015	Public
14.	SQL Server Replication	FIXEL Sdn. Bhd.
15.	Symposium Keselamatan, Kesihatan Pekerjaan & Alam Sekitar TNB ke 10	Jabatan Keselamatan Kesihatan Pekerjaan & Alam Sekitar, Bahagian Sumber Manusia Kumpulan TNB
16.	Menaiktaraf Sistem PSI ISO 9001	Pengurusan Strategik & Pembangunan Organisasi, Bahagian Penghantaran, TNB
17.	Development of MSTH Competency Metric For Software Test Professionals (CMSTP)	Malaysian Software Testing Board
18.	A Research on Development of Weather and Flow Forecasting System For Sg Perak Hydroelectric Schemes - Phase 1 Temengor	TNB Research
19.	PPC - Program Pelajar Cemerlang 2014/2015 (Intake Mac 2015)	Yayasan Tenaga Nasional (YTN)
20.	Goodwill Index of TNB Corporate Responsibility	TNB, Jabatan Hal Ehwal Korporat & Komunikasi
21.	Development of Mobile Application for AORC-CIGRE Sabah 2015	Malaysia National Committee CIGRE
22.	An Investment Policy and Strategy Manual for Tenaga Nasional Berhad	Transformation Department, Energy Ventures Division, TNB
23.	2nd Services for Cleaning of Dust Collector for TNB REMACO Repair Centre, Klang	TNB Repair and Maintenance Sdn. Bhd.
24.	Evacuation Modelling and development of Emergency Planning in the Event of Catastrophic Flooding from Dam Related Disasters	TNB Research
25.	2 days Training on Gas Chromatography: Fundamental, Applications & Practical Approach	Public
26.	Survey on Social Economic Implications of TNB Decisions on Awarding Suppliers with Local Versus Imported Products	Procurement Division (TNB)
27.	English Conversation Course	Rajamangala University of Technology Phra Nakhon, Thailand
28.	A Survey on the Effectiveness of TNB Public Relation Campaigns	Jabatan Hal Ehwal Korporat & Komunikasi, TNB.
29.	Kajian Soal Selidik Keberkesanan Inisiatif New Branch Concept	Jabatan Perkhidmatan Pengguna Bahagian Pembahagian, TNB
30.	Penyediaan Aplikasi Web-Based Untuk Tujuan Perancangan Bajet Hasil di Bahagian Pembahagian	Jabatan Kewangan, TNB Distribution
31.	Kerja-Kerja Pembangunan Sistem 33kV SLA	ICT, TNB

## Highlights of Activities



Asean Residential School in Electric Power Engineering 2014 (ARSEPE 2014).



Hari Bersama Pelanggan INSPA.



Visit of Diploma Students from ASTIN College.



UNITEN Teambuilding.





***MOVING  
FORWARD***

## MOVING FORWARD

### Soaring to New Heights with BOLD

The new leadership of UNITEN has inspired UNITEN stakeholders to SOAR by inquiring and leveraging on Strengths, taking advantage of Opportunities, with an intent focus on Aspirations and measurable Results. He invigorates stakeholders with a shared vision, mission and BOLD strategic plan that releases employees' Creativity, Innovativeness, and Energy to attain goals. Thus, UNITEN has achieved outstanding performance in its WISE15 and now, the new leadership continues the path towards achieving the goals of the new strategic plan, BOLD2020 with his strategic direction, high enthusiasm and sustenance from UNITEN stakeholders.

### The BOLD Framework

The BOLD strategic plan is based on lab findings through series of environmental scanning and situational analysis. The initial outcome was the development of five building blocks, i.e. Teaching & Learning, Services, New Business, Research, and Image and Branding which constitute the strategic goals. However, it was later refined into three main objectives; Teaching & Learning and Research, Marketing, Image Branding and Services, and Sustainable UNITEN. Several initiatives have also been identified for UNITEN to be an excellent hybrid teaching & research university focusing on energy. The new financial model has clearly outlined the generation of revenue from teaching and learning, services and new business.

### The Objectives

- **Cultivating Future Leaders through Innovation Learning**
- **Enhancing Campus Life through Vibrant Environment**

Teaching and learning will focus on programs emphasizing towards energy and electricity supply industry with value-added constituent such as international recognition, international exposure, and professional certification. To support this effort, UNITEN shall promote a vibrant campus environment. It shall refurbish and upgrade facilities at both campuses, Putrajaya and Muadzam, for effective teaching and learning as well as good branding. It is hoped that the new environment could provide the students with an atmosphere that encourages them to be innovative and creative.

- **Advancing Research On Energy Industry**

Aligning research focus and niche area towards TNB aspirations is another challenge in the new strategic planning. iRMC establishes a clear roadmap to ensure that a balanced process is carried out for both fundamental and applied research. Consolidation of the research centers and centers of excellence under the colleges and university is fundamental for a more systematic expedition and monitoring of research activities in the university.

- **Our Aspiration (BOLD 2020)**

The realization of UNITEN strategic plan relies on more and clearer impact builds on strategic management and moves of strategic leadership that inspire BOLD 2020. After the completion of WISE15, it is our aspiration to further improve, and rigorously achieve the next phases that are devoted to defining strategic initiatives and priority projects.



- **Strategizing For New Business and Ensuring Financial Sustainability**

Strategically, there is a need to explore new income-generating opportunities and new revenue streams. Initiatives include new market segments, partnership or collaborations with other institutions for franchise, articulation agreement for credit transfer, and to develop new programmes that are related to or with inclination towards energy. Essentially, other initiatives include consolidating consultation activities with INSPA, ILSAS, and Quantum Solutions, and synergy with TNBR through seamless Smart Partnership.

- **Strengthening Marketing for Successful Image Branding**

In conjunction to building excellent brand and image, UNITEN develops a new marketing strategy to reach the projected population that contributes to the generation of revenue. The collaborative effort between international office and student alumni center is seen as the pivotal hinge to a successful marketing strategy implementation. Mapping the cross-functional decision process enables Marketing & Corporate Communication Department (MCC) to quantify situational aspects of marketing more comprehensively.

The management of university has outlined six essential requirements for achieving financial sustainability in UNITEN based on the soaring high factor:

1. Strategic Leadership
2. BOLD Strategy
3. Transformational Management Team
4. Investment of Time and Money
5. Appreciative Commitment
6. Concerted Teamwork

