

UNIVERSITI
TENAGA
NASIONAL



The Energy University



ANNUAL REPORT

UNIVERSITI TENAGA NASIONAL

2023



The Energy University



CONTENTS

ANNUAL REPORT 2023

2	FORWARD • Message from the Vice-Chancellor
6	UNITEN at a Glance • Our Mission and Vision • University Anthem, UNITEN Terbilang • University Governance
15	HIGHLIGHTS
28	RESEARCH EXCELLENCE AT UNITEN: DRIVING INNOVATION
34	ACADEMIC EXCELLENCE
43	RANKING
48	MEMORANDUM OF UNDERSTANDING (MOU)
55	FINANCIAL SUSTAINABILITY
58	HOLISTIC STUDENT DEVELOPMENT
66	ALUMNI



VICE-CHANCELLOR'S REVIEW

The year 2023 marks another chapter of achievements for Universiti Tenaga Nasional (UNITEN) as we continue to thrive as a distinguished Energy University. Driven by our aspirations, we have established a robust foundation to ensure sustainable growth, academic excellence, and innovation in energy technology.

Moving forward, UNITEN will focus on several strategic priorities:

Developing Exceptional Human Capital

We remain committed to empowering our students with the knowledge, skills, and values needed to meet the demands of future industries. Our strong collaborations with the energy and technology sectors ensure that UNITEN graduates remain relevant and well-prepared for global challenges.

High-Impact Research

UNITEN will continue to strengthen its research capabilities, emphasizing innovation and exploration in renewable energy, energy efficiency, and smart technologies. Initiatives such as the Smart UniverCity will drive the transformation of our campus into a living lab for sustainable energy solutions.

Globalization and World Rankings

While we take pride in our improved standings in QS World University Rankings and THE (Times Higher Education) Rankings, we are committed to securing a place among the world's top 500 universities. This will be accomplished through a focused approach to academic excellence and globally impactful research.

Sustainability and Social Responsibility

As a university that embraces its societal role, UNITEN will continue championing green initiatives and advancing our goal of a carbon-neutral campus by 2050. Additionally, we will expand community engagement programs to create a meaningful impact on the surrounding communities.

With unwavering support from all stakeholders—students, staff, alumni, and industry partners—UNITEN is poised to chart new milestones and realize its aspirations of becoming a leader in energy innovation and technology.

Let us move forward together, driving meaningful change and making UNITEN a symbol of pride and a beacon of hope for the future.

Prof. Ir. Dr. Khairul Salleh Mohamed Sahari

Vice Chancellor
Universiti Tenaga Nasional



A nighttime city skyline, likely New York City, with prominent skyscrapers like the Empire State Building. The image is overlaid with large, semi-transparent geometric shapes: a blue triangle on the left and a red triangle on the right. Light trails from traffic and city lights create a sense of motion and energy.

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.

UNITEN TERBILANG

Sayup matakü memandang

Lambang gedung ilmu yang terbilang

Di sini kita julang cita-cita berjuang

Untuk mencapai matlamat cemerlang

Tegak gagah di Malaysia

Dengan warga yang berbilang bangsa

Di sini kita julang cita-cita berjaya

Cita yang mencapai kelas dunia

Kan ku bawa obor menyala Ke seluruh tanah melata

UNITEN berupaya menjana profesional

Diiktiraf dunia antarabangsa

UNITEN pusaka tersayang

Kerana jasamu sungguh gemilang

Di sini kita julang cita-cita berjuang

UNITEN gedung ilmu yang terbilang



UNIVERSITY GOVERNANCE



CHANCELLOR

**TUAN YANG TERUTAMA
TUN DATO' SERI UTAMA AHMAD FUZI
BIN HAJI ABDUL RAZAK**

YANG DI-PERTUA NEGERI PULAU PINANG



**YBHG. ACADEMICIAN
TAN SRI DR. IR. AHMAD
TAJUDDIN BIN ALI**

FASC
PRO-CHANCELLOR



**YBHG. DATO' SERI IR.
BAHARIN BIN DIN**

PRO-CHANCELLOR



**YBHG. TAN SRI DR. LIN SEE
YAN**

PRO-CHANCELLOR



**YBHG. TAN SRI ABDUL
RAZAK ABDUL MAJID**

PRO-CHANCELLOR

BOARD OF DIRECTOR



- 1 Dato' Abdul Razak bin Abdul Majid
- 2 Dato' Seri Ir. Baharin bin Din
- 3 Encik Wahizan bin Abd Rahman
- 4 Tan Sri Dato' Academician Ir. Ts. Dr. Ahmad Zaidee bin Laidin, FASc
- 5 Dato' Mohd. Yusof bin Ibrahim, FASc
- 6 Dato' Seri Ir. Dr. Zaini bin Ujang, FASc

BOARD OF GOVERNORS



**Prof. Emeritus Dato' Dr. Hassan
bin Said**



**Encik Wahizan bin Abd
Rahman**



**Tan Sri Dato' Academician Ir.
Ts. Dr.
Ahmad Zaidee bin Laidin,
FASc**



**Dato' Mohd. Yusof bin
Ibrahim, FASc**



**Dato' Seri Ir. Dr. Zaini bin
Ujang, FASc**



**Datuk Ir. Khalilur Rahman bin
Ebrahim**



**Dato' Haji Abd. Aziz bin Abu
Bakar**



**Prof. Dato' Ts. Dr. Mohd.
Zamri bin Yusoff**

MANAGEMENT COMMITTEE



1

**PROF. IR. DR. KHAIRUL SALLEH
MOHAMED SAHARI**
Vice Chancellor

4

Assoc. Professor Dr. Abdul Aziz Mat Isa
Deputy Vice-Chancellor (Student Affairs & Alumni)

2

Prof. Dato' Ts. Dr. Mohd. Zamri bin Yusoff
Deputy Vice-Chancellor (Research & Innovation)

5

Assoc. Professor Ts. Dr. Mohd Ezanee Rusli
Chief Operating Officer (COO)

3

Prof. Ir. Dr. Ramesh Singh a/l Kuldip Singh
Deputy Vice-Chancellor (Academic & International)

6

Mrs. Fairuzana Haneem Mohamed Ali
Chief Financial Officer (CFO)

7

Professor Ir. Dr. Agileswari a/p Ramasamy
Dean, College of Graduate Studies (COGS)

MANAGEMENT COMMITTEE



8 **Professor Ir. Dr. Izham Zainal Abidin**
Dean, College of Engineering (COE)

9 **Assoc. Professor Ts. Dr. Jaspaljeet Singh a/I Ranjit Singh**
Dean, College of Computing & Informatics (CCI)

10 **Assoc. Professor Dr. Rosmiza Mokhtar**
Dean, College of Continuing Education (CCEd)

11 **Assoc. Professor Dr. Bakhtiar Alrazi**
Dean, UNITEN Business School (UBS)

12 **Mrs. Nurazariah Abidin**
Director, Sultan Haji Ahmad Shah Campus (KSHAS)

13 **Assoc. Professor Ir. Ts. Dr. Azrul Mohd Ariffin**
Director, Strategic Planning Centre

14 **Mr. Zulkarnain Md Nor**
Registrar

15 **Mrs. Najwa Sharer**
Legal Manager



HIGHLIGHTS

PMX visits UNITEN



10 March 2023 - The Prime Minister of Malaysia, YAB Dato' Seri Anwar Ibrahim visited Medan Selera UPTEN to spend time with UNITEN students, whilst enjoying lunch. He later joined the congregation for Friday prayer at Masjid UNITEN, Putrajaya Campus. This visit was one of his regular routines since becoming the Prime Minister in November 2022.



He was accompanied by the Minister of Natural Resources, Environment and Climate Change, YB Nik Nazmi Nik Ahmad, the Chairman of the Board of Governors of UNITEN, Professor Emeritus Dato' Dr. Hassan Said, and the Vice-Chancellor of UNITEN, Professor Ir. Dr. Noor Azuan Abu Osman.

25th UNITEN Convocation – UNITEN celebrates 1,373 Graduates in 2023

Strong industry cooperation reason for UNITEN graduates' 96.8% marketability



The strong cooperation and engagement between Universiti Tenaga Nasional (UNITEN) and industry players have increased the marketability of its graduates up to 96.8%.

The high rate of UNITEN graduates securing employment within six months of graduation shows that this cooperation provides a bright future for them. One of UNITEN's strengths is its marketability where the majority of graduates would receive offers and job opportunities right after graduating.

The university incorporates a two-week input from the relevant industry for every subject with industry professionals also acting as lecturers. This is why the industries wait for our graduates. UNITEN also ensures its graduates not only excel academically but also possess strong interpersonal, leadership, and communication skills.

Every student is required to be actively involved in co-curricular activities and evaluated through the university's Students Activities Online Reporting System (SCoRUN). This system covers spiritual and civilisation, sports and recreation, arts and culture, communication and entrepreneurship, as well as leadership and intellectual aspects. UNITEN is able to equip its students with the skills and knowledge crucial for the industry, in line with the government's efforts towards digitisation and green technology.

UNITEN has also established international collaborations with universities from France, Ireland, Germany, and China, among others, and appointed 80 world-renowned professors as visiting professors to share their expertise and engage in collaborative research to provide global exposure to the students.

Bachelor of Mechanical Engineering graduate, Chong Jin Yang, 23, who received the Chancellor's Gold Award for his outstanding academic and co-curriculum achievements and positive contribution to university life, said his drive to succeed came from having close friends and being motivated by his parents.



"As I stand here today, I reflect on the incredible friendships and bonds we've formed over the past four years. From our very first study group to our final project, we have supported one another, grown together, and accomplished more than we could have on our own. Thank you, UNITEN, for providing me not only with an education but also with a family of friends who have motivated me to strive for excellence and be my best self. Together, we have truly demonstrated that success is greater when shared."

Chong Ji Yang

Bachelor of Mechanical Engineering (Hons.)
Chancellor's Gold Award



Bachelor of Electrical Power Engineering graduate, Ooi Khel Shiao, 23, who received the Chancellor's Silver Award, said although the participation of women in electrical engineering courses is very low, it did not deter her from completing the four-year studies in the field.

"There were only a few female students in my class but that didn't stop me because my interest in physics motivated me to continue in the field. Thank you UNITEN, for providing me the opportunity and environment to succeed, challenge myself, and push past limits."

Ooi Khel Shiao

Bachelor of Electrical Power Engineering (Hons.)
Chancellor's Silver Award / Recipient of the Malaysian Board of Engineers Excellence Award



Meanwhile, Bachelor of Computer Science (Software Engineering) graduate Lim Swee Keong, 22, said his choice to study at UNITEN was influenced by his father, who is also an employee of Tenaga Nasional Bhd (TNB).

"I believe information and communication technology (ICT) can enhance productivity and help the country transition to a high-income economy."

Lim Swee Keong

Bachelor of Computer Science (Software Engineering) (Hons.)

Chancellor's Bronze Award

The convocation ceremony was officiated by Penang Yang di-Pertua Pulau Pinang, Tuan Yang Terutama Tun Dato' Seri Utama Ahmad Fuzi bin Abdul Razak, who is also the Chancellor of UNITEN.

A total of 1,373 graduates including 136 international graduates and 19 Hufaz Professional graduates received their scrolls.

UNITEN appoints Dato' Razak as Pro-Chancellor UNITEN at the 25th Convocation Ceremony



The Chairman of Tenaga Nasional Berhad (TNB), YBhg. Datuk Abdul Razak Abdul Majid, was announced as the Pro-Chancellor of UNITEN in recognition of his key role in continuing to drive the university's performance.

He was appointed as the Chairman of TNB, effective of TNB, effective 27 March 2023. Abdul Razak has served TNB since 1973, handling various assignments, such as planning, constructions, and operations.



His previous assignments were within all of the three core divisions of generation, transmission and distribution of TNB.



He was appointed as TNB's vice president for generation from 2004 to 2008 before being made group senior vice president of corporate affairs from 2008 to 2009.

Abdul Razak received his Bachelor's degree in Electrical Engineering from Brighton University in the United Kingdom, and his Master's degree in Business Administration from Ohio University in the United States of America.

UNITEN Student Wins The Diana Award 2023



Nehemiah Aaron Nathan, 25, did the country proud when he received the 2023 Diana Award. Nehemiah, who was a Tunku scholar studying Electrical and Electronics Engineering at Universiti Tenaga Nasional (UNITEN) was one of the two Malaysians among 200 youths worldwide presented with the accolade for social action or humanitarian efforts.

Nehemiah was nominated to receive this award by his university lecturer and club advisor, Dr. Evelyn Yeap Ewe Lin. The virtual award ceremony, held on 1 July 2023, marked the 62nd anniversary of Diana's birth. Established in memory of Diana, Princess of Wales, the awards are presented to youth aged 9 to 25 for going above and beyond in their lives to create and sustain positive change, and for their social actions or humanitarian work.

Nehemiah co-founded 'The EduLab', a social enterprise aimed to improve English proficiency among Malaysian students, especially in the B40 community. Nehemiah and his friends, Syaarveni, Ho Jia, Lee Mei Yan, dan Chan Yew Joe, developed the 'Zing! English Card Game, using a game-based learning approach to help children stay engaged with learning English. The impact was tangible with over 850 children from 15 government primary schools and tuition centres within the Klang Valley area benefitting from the programme and experiencing gains in their English literacy.

Nehemiah said he was truly humbled, honored, and thankful to God that the Diana Award saw in him a worthy recipient. He claimed that as one of the two Malaysians chosen for the 2023 Diana Award, he felt incredibly privileged to represent the nation.

The initiative has also garnered recognition from esteemed organisations like McKinsey & Co. and the U.S. Department of State, and the impact is growing steadily.



"Those engaged in social action comprehend the gravity of this recognition as it takes a holistic approach to the person. We frequently hear that we can work towards an award, but the Diana Award is different since it is an independent acknowledgment of one's capacity to drive genuine change."

Nehemiah Aaron Nathan

Bachelor of Electrical and Electronics Engineering (Hons.)

04 Food Bank Wakaf Rahmah UNITEN to benefit 1,000 students



The Food Bank Wakaf Rahmah Universiti Tenaga Nasional (UNITEN) programme was launched on 7 March 2023. This programme aims to help underprivileged students, especially those from the B40 and B10 groups with the cost of living.

The Food Bank Siswa programme implemented by the Ministry of Domestic Trade and Consumer Affairs since February 2019 and the Food Bank Wakaf Rahmah programme would benefit 1,000 students.

This programme uses the food pantry concept, with UNITEN providing a place to store food donations and coordinating the distribution of donations to students according to a set schedule.

UNITEN was the first university to implement the Food Bank Wakaf Rahmah programme and the 30th to implement the Food Bank Siswa.





The Food Bank Siswa programme has been expanded to 29 institutes of higher education, polytechnics, and teacher education institutes and has helped a total of 21,105 students in need.

The Food Bank Wakaf Rahmah UNITEN was launched by the Deputy Minister of Domestic Trade and Consumer Affairs, YB Fuziah Salleh.

05 US ambassador impressed with UNITEN's readiness to spearhead Malaysia's energy transition



Universiti Tenaga Nasional (UNITEN) hosted a speaking engagement with the U.S. Ambassador to Malaysia, H. E. Brian McFeeters, titled "Climate Action Now: Taking Initiatives to Combat the Climate Crisis" at the Theatre, UNITEN.

The U.S. Ambassador to Malaysia, Brian McFeeters recognised the commitment of UNITEN to spearhead Malaysia's energy transition, in line with the United Nations' Sustainable Development Goals (UN SDG) through the establishment of the first National Energy Centre (NEC) for the country soon.

McFeeters, who shared his aspirations and thoughts during an engagement held at UNITEN on 25 May 2023, said Malaysia would be able to spearhead the energy initiatives for a sustainable future for generations to come via collaborations with various stakeholders.





//

Malaysian states, as stewards of the land, play a crucial role in deciding to preserve and restore Malaysia's amazing forests, mangroves, and peatland, each critical in reducing overall greenhouse gas emissions. //

H. E. Brian McFeeters

US Ambassador to Malaysia

He has also engaged the students and staff, and was impressed by the focus placed by the university's management team on tertiary education in energy transition in the country, as well as in producing highly employable graduates.

The Vice-Chancellor of UNITEN, Professor Ir. Dr. Noor Azuan Abu Osman said the setting up of the (NEC) under UNITEN was aimed at establishing a Strategic National Energy Framework to transform Malaysia into an energy hub.

This framework could also provide industry players with the opportunity to become strategic partners by opening their own branch or laboratory satellite incubator in the energy centre. It is expected to benefit both Malaysia and the surrounding regions with technological solutions for energy transition, in the effort to increase renewable energy capacity and deal with carbon emissions.

As we transition towards net zero emissions by 2050, our country aims to become a Low Carbon Nation by 2040, as reflected in the latest National Energy Policy (2022-2040).

06 OFFICIAL VISIT BY CHAIRMAN OF TNB



TNB Chairman, YBhg. Dato' Abdul Razak Abdul Majid, undertook his first official visit to Universiti Tenaga Nasional (UNITEN). He was introduced to the senior management team of UNITEN, followed by a briefing on the strategic direction of UNITEN by the Vice-Chancellor, Professor Ir. Dr. Nor Azuan Abu Osman.

08 UNITEN Showcases Fusion of Knowledge, Innovation, Science and Art



Universiti Tenaga Nasional (UNITEN) showcased a fusion of knowledge, innovation, science, and art at the Tan Sri Leo Moggie, Chair of Energy Informatics, and the Institute of Informatics and Computing in Energy (IICE) Engagement Day on 8 June 2023.

With the theme, “Energy Informatics: Symbiosis of Art, Science & Sustainability”, it featured three engaging and enlightening activities that captivated attendees: the Tan Sri Leo Moggie Lecture Series, the Research & Innovation Exhibition, and the Art, Science & Photography Exhibition.

The event’s highlight was the 2023 Tan Sri Leo Moggie Lecture Series, featuring a lecture titled, “Space: The Ultimate Energy Source of the Future,” delivered by Prof. Emerita Tan Sri Dato’ Seri Dr. Mazlan Othman. Prof. Mazlan explored the future of energy by examining the potential of dark matter and dark energy, which together constitute an astounding 95% of the universe. Her insightful presentation provided a new perspective on the importance of energy within the context of space exploration.

Meanwhile, the Research Exhibition featured an impressive display of the latest research projects by IICE researchers, postdoctoral scholars, and participating Government-Linked Universities: Multimedia University (MMU) and Universiti Kuala Lumpur (UniKL).

The showcased research spanned various domains and technology, including Artificial Intelligence, Blockchain, Cyber Security, Bioenergy, and Chemistry, emphasizing the interdisciplinary and exciting nature of energy informatics.

The Art, Science, and Photography Exhibition added another captivating element to the event. Titled “The Ways of the Heart, vol. 2,” the exhibition showcased 20 paintings by renowned Polish researchers, Dr. Dominika Gołębiewska from the Academy of Fine Arts in Gdańsk, and Dr. Beata Kołakowska from the University of Warmia and Masuria in Olsztyn. Additionally, the Engagement Day included exceptional artwork by the Di8IT collective, a group of researchers-cum-artists consisting of members from Universiti Tenaga Nasional (UNITEN), Universiti Putra Malaysia (UPM), Universiti Kebangsaan Malaysia (UKM), and Universiti Teknologi MARA (UiTM). To further enhance the artistic experience, ten striking photographs by the winners of the Digital Photography Class 2023 were also exhibited.

Prof. Ir. Dr. Noor Azuan, the Vice Chancellor of UNITEN, has expressed his enthusiasm for the Engagement Day event, describing it as the true embodiment of UNITEN’s identity – creative, innovative, and dynamic. He emphasized that IICE serves as the leading research institute in energy informatics, fostering collaborations among academia, the energy industry, and businesses

to address current and future challenges in the field. Furthermore, the establishment of the Tan Sri Leo Moggie Distinguished Chair in Energy Informatics in 2020, generously endowed by TNB, has positioned UNITEN at the forefront of energy informatics research.

The Engagement Day at UNITEN has provided a platform for the exchange of ideas, strengthened collaboration with industry players, showcased ground-breaking research, and celebrated artistic expression. UNITEN remains committed to pushing boundaries, embracing interdisciplinary collaborations, and shaping the future of energy informatics.

This event was also attended by the former Chairman of the Board for Tenaga Nasional Berhad (TNB), Tan Sri Leo Moggie, the Holder of Tan Sri Leo Moggie Distinguished Chair in Energy Informatics, Professor Emeritus Dato' Dr. Halimah, and the Chairman of TNB, Dato' Abdul Razak Abdul Majid.

08 Le Tour de IPT



The Ministry of Higher Education (MOHE), in collaboration with Universiti Teknikal Malaysia (UTeM), Melaka and the National Cycling Association of Malaysia (PKBM), successfully organised the Le Tour de IPT 2023 (LTdIPT). The 2023 LTdIPT was the inaugural edition of a cycling tour featuring 16 teams from public (IPT) and private higher education institutions (IPTS) that spanned four stages covering a total distance of 332.7 km.



The final leg of the race was held on 20 June 2023 and spanned a distance of 90.3 km. It was officiated by the Vice-Chancellor of Universiti Tenaga Nasional (UNITEN), Professor Ir. Dr. Noor Azuan Abu Osman, commencing from UNITEN, Putrajaya campus and culminating in Putrajaya.



09 UNITEN Installs Solar Panel System to Ensure Energy Sustainability



Universiti Tenaga Nasional (UNITEN) had a solar panel system, with a total capacity of 549 kWp, installed on the rooftops of the Management Building and the College of Engineering Building, which was fully completed on 10 May 2023.

Its Deputy Vice-Chancellor, Professor Dato' Ts. Dr. Mohd Zamri Yusoff said the installation of the system was an initiative under the Supply Agreement of Renewable Energy (SARE) scheme signed between UNITEN, Tenaga Nasional Berhad (TNB), and GSPARX Sdn. Bhd. (GSparx) on 7 April 2022.

Through the SARE scheme and the solar panel system, UNITEN can enjoy zero upfront installation costs of the Solar Photovoltaic (Solar PV) panels, and save approximately RM3.5 million in electricity costs over the course of 25 years, while incurring no maintenance expenses, including monitoring and repairs, for the duration of the contract.

The installation of the Solar PV system will strengthen UNITEN's reputation as an Energy University that utilises renewable energy sources and supports TNB's Sustainability Pathway towards net-zero emissions by 2050.



The university also has other solar panel technologies, such as the Senslar, a floating platform system in the UNITEN Mosque lake, and the Nano Grid system that features nano panel solar technology and ultra-capacitors installed in the College of Engineering's food court.

The installation of these systems was spearheaded by the Institute of Sustainable Energy's senior lecturer, Dr. Ahmad Wafi Mahmood Zuhdi, the College of Engineering's lecturer, Hanif Abdul Karim, and a team from GSparx.

Also present at the event were TNB's Chief Retail Officer, Tuan Haji Kamal Arifin A. Rahman, the Managing Director of GSparx Sdn. Bhd., Mr. Elmie Fairul Mashuri, and TNB's Chief Customer Officer (Government & Large Business), Mr. Nasaruddin Mohd Zaini.



10 Meet & Greet with Dato' Low



Indonesian Philanthropist Provides RM50 mil in scholarships for B40 Students in UNITEN

Indonesian entrepreneur and philanthropist, Dato' Low Tuck Kwong, has pledged RM50 million in scholarships for outstanding students from underprivileged families to pursue their studies at Universiti Tenaga Nasional (UNITEN).

During his visit to UNITEN on 31 March 2023, Dato' Low shared the wonderful news of his continued commitment to supporting more students in the coming years.



He also took the opportunity to meet with the nine students currently under his sponsorship, who expressed their gratitude and described him as a compassionate, fatherly figure dedicated to helping passionate and hardworking students. This generous contribution will greatly support UNITEN in shaping future leaders.

11 UNITEN Open Day 2023

UNITEN Open Day: A Successful Showcase of Academic Excellence and Opportunities

Universiti Tenaga Nasional (UNITEN) recently held its highly anticipated Open Day events at two different locations, attracting a large number of prospective students and their families. The events served as an excellent platform for visitors to gain deeper insights into UNITEN's diverse academic programmes, vibrant campus life, and available scholarship opportunities.

The first event took place on 17 and 18 June 2023 at UNITEN Putrajaya campus. The two-day event provided attendees with an exclusive experience of the campus environment, state-of-the-art facilities, and interactions with lecturers and current students. Various education consultations were held to showcase the university's strengths in engineering, business, and information technology fields. Visitors were also given the chance to explore UNITEN's research projects and innovations, which reflect its commitment to fostering creativity and technological advancements.



Following the success of the first event, UNITEN hosted another Open Day from 13 to 16 July 2023 at Sunway Pyramid, one of the most popular shopping malls in Malaysia. This four-day event featured informative exhibitions and consultations for prospective students, providing them with details on academic offerings, career prospects, and financial aid. It also included interactive sessions with UNITEN's faculty members, where visitors could inquire about the unique aspects of each programme and understand how the university prepares its students for future careers.



The Open Day events provided a platform for UNITEN to engage with the community, share its vision of producing industry-ready graduates, and highlight its role as the energy-focused university in Malaysia.



Both events were well-received, with a significant number of registrations for the upcoming academic intake. UNITEN expressed gratitude to all attendees and participants who contributed to the success of the Open Day events and looks forward to welcoming new students ready to embark on a transformative educational journey.



RESEARCH EXCELLENCE AT UNITEN: DRIVING INNOVATION

RESEARCH EXCELLENCE AT UNITEN: DRIVING INNOVATION

Since its inception in 1997, UNITEN has consistently demonstrated high research quality, contributing significantly to advancements in science, technology, and environmental wellbeing. Our commitment to research excellence is evident through the dedication of our staff and students, who actively engage in multidisciplinary collaborations across colleges and with organizations within Malaysia and internationally.

Explore Our Research Impact:

- **Publications:** In 2023, UNITEN researchers published an impressive **555 articles in the Web of Science (WoS)** and **926 articles in Scopus**.
- **Research Grants:** UNITEN secured **RM 1.376 million in research grants** in the fiscal year 2023. These funds have supported groundbreaking projects in various fields.
- **Awards and Recognition:** Our research excellence is further highlighted by the **31 medals and awards** won by UNITEN in 2023.

10/01/2023

2023 Top Research Scientists Malaysia (TRSM) conferred by the Academy of Sciences Malaysia (ASM)

Winners:

Prof. Vigna Kumaran A/L Ramachandaramurthy and Prof. Datin Lariyah Bt Sidek



15/7/2023

2023 Clarivate Highly Cited Researchers

Winners:

- (1) Prof. Ir. Dr. Vigna Kumaran A/L Ramachandaramurthy
- (2) Prof. Ir. Dr. Abd Halim Shamsuddin
- (3) Dr. Al Mahfoodh Ali Najah Ahmed
- (4) Dickson Neoh Tze How
- (5) Prof. M. A. Hannan
- (6) Prof. Nowshad Amin
- (7) Assoc. Prof. Dr. Ker Pin Jern
- (8) Prof. Saifuddin bin Nomanbhay
- (9) Dr. Chia Shir Reen

11-12 May 2023

ITEX 2023

Prof. Dato' Dr. Salina Daud won the Best Woman Researcher Award and Prof. Ir. Dr. Ramesh Singh A/L Kuldip Singh won the Best Invention in Technology Reversing Climate Change Special Award for UNITEN. Additionally, the contingent won 10 gold medals and 4 silver medals in ITEX 2023. The overall results are shown in the table below:

NAME	INVENTION	AWARD
Prof. Dato' Dr. Salina Daud	Consumer Lifestyle Energy Calculator (CLEC)	Best Woman Researcher Award
Prof. Ir. Dr. Ramesh Singh A/L Kuldip Singh	The Role of Natural Resources in Energy Devices for Carbon Neutrality	Best Invention in Technology Reversing Climate Change
Dr. Siti Fara Fadila Abdul Razak	GREEN WASTE WAQF CRAWLER (GWWC)	Gold
Prof. Dr. Ramesh Singh	The Role of Natural Resources in Energy Devices for Carbon Neutrality	Gold
Ts. Dr. Ean Lee Woen	Green Bricks Utilizing Sediments	Gold
Prof. Dato' Dr. Salina Daud	Consumer Lifestyle Energy Calculator (CLEC)	Gold
Gs. Ts. Dr. Nor Hazwani binti Nor Khalid	Peninsular Malaysia Corrosion Hazard Visualization System (PCorS)	Gold
Rositah binti Bakar	Passing Mark Template (PMTem) Monitoring System	Gold
Prof. Ts. Dr. Manjit Singh Sidhu	3D UX of Augmented Reality Gear Mechanisms	Gold
Gs. Ts. Nazirul Mubin bin Zahari	An Innovative Way of Hands-On Gamification Learning using Virtual Reality and Hand Motion Tracking to Exploring STEM Education	Gold
Dr. Zarina Itam	Self-Hearing Concrete Microcapsules	Gold
Dr. Abbas Mohammed Ali Al-Ghaili	Metaverse Security: a blockchain-based system for protecting intellectual property in virtual worlds (MetalPsec)	Silver
Ts. Dr. Salmia Beddu	Malaysia bottom ash self-compacting bricks (MyBASCO Brick)	Silver
Dr. Hairoladenan Kasim	AI Voice Chatbot for Malay Language : An Efficient Customer Service Solution	Silver
Ts. Dr. Sharul Azim bin Sharudin	Sentiment Analysis for Malay Language	Silver



16-18 March 2023

MTE 2023

UNITEN won 1 silver medal and 3 bronze medals in this competition.



Ts. Dr Ing Zarina Binti Itam
Autonomous concrete
healing capsules



Ir. Ts. Dr. Daud Bin Mohamad
Waste diapers self-cured
High Strength Concrete
(WADISC-HSC)



**Prof. Ts. Dr. Manjit Singh
Sidhu**
Smart Real-Time RFID-
IoT Asset Tracking and
Monitoring Management
System for Warehouse



Ts. Marina Binti Md Din
Twitter Cyberbully Detection

9-11 August 2023

MTE AHLS 2023 (Advance Health and Life Science)

Prof. Ts. Manjit Singh Sidhu won the INNOPA Special Award and a gold medal in this event. His invention title is "Machine Learning Dysphonia Detection System"

Gold Award Winners

MTE 2023
Malaysia Technology Expo™
A Leading Global Innovation and Technology Event

Advanced Healthcare and Life Sciences International Innovation Awards and Expo

CATEGORY
AI & Machine Learning

TITLE OF INNOVATION
Machine Learning Dysphonia Detection System

INNOVATION TEAM
Prof. Ts. Dr. Manjit Singh Sidhu
Dr. Kirandeep Kaur Sidhu
Nur Atiqah Abdul Latib

ORGANISATION
Universiti Tenaga Nasional (UNITEN)

18-20 October 2023

Malaysia Technology Expo (MTE) 2023 Sustainable Development Goals International Innovation Awards (SDG IIA)

UNITEN won 1 gold, 2 silvers, 2 bronzes, and 1 merit in this event.

NAME	INVENTION	AWARD
Assoc. Prof. Dr. Hj. Firas Basim Ismail	Smart Hybrid Renewable Energy System : Design and Development of Integrated Hybrid Solar-Darvus Wind Turbine System for In-House Power Generation	Gold
Ts. Dr. Ing Zarina binti Itam	Self-healing microcapsules for autonomous concrete healing	Silver
Gs. Ts. Nazirul Mubin bin Zahari	Tech-Driven Learning using VR and Hand Tracking Gamification for Innovative STEM Workability	Silver
Assoc. Prof. Dr. Mohamed Ansari Mohamed Nainar	Kenaf/Epoxy Hybrid Composite for 11 kV Transmission Lines Insulator	Bronze
Prof. Ir. Dr. Kumaran Palanisamy	MyGreen Digitalized WCO Collection Block Chain Powered Reverse Vending Machine (RVM)	Bronze
Assoc. Prof Ir. Ts. Dr. Chong Kok Hen	Biobased Triboelectric Nanogenerator (B-Teng) Using Sliding Mode for Low-Power Sensor Node	MERIT



18-20 December 2023

MTE SEGT 2023

Dr. Siti Fara Fadila Abd Razak won a special award, an outstanding award, and a gold medal, while Ts. Dr. Ing Zarina Binti Itam won a special award and a gold medal in this competition.

NAME	INVENTION	AWARD
Dr. Siti Fara Fadila Abdul Razak	An Innovative Waste Waqf Management System In Supporting Highly Efficient Green Approach	Special Award
Dr. Siti Fara Fadila Abdul Razak	An Innovative Waste Waqf Management System In Supporting Highly Efficient Green Approach	Outstanding Award
Dr. Siti Fara Fadila Abdul Razak	An Innovative Waste Waqf Management System In Supporting Highly Efficient Green Approach	Gold
Ts. Dr. Ing. Zarina binti Itam	MYCENO Cenosphere Separator	Special Award
Ts. Dr. Ing. Zarina binti Itam	MYCENO Cenosphere Separator	Gold





ACADEMIC EXCELLENCE

ACADEMIC EXCELLENCE

Background

The Centre for Academic Advancement and Flexible Learning at UNITEN is committed to promoting scholarly and high-quality teaching practices in both conventional and online programmes. It offers continuous professional development programmes for academic staff, while serving as a resource hub that provides access to cutting-edge educational technologies. This centre also encourages the adoption of digital tools and supports experimentation with emerging educational trends. Additionally, the Centre runs mentorship programmes for new academic staff to enhance their teaching

skills and knowledge. Embracing digital and flexible learning, the Centre facilitates open and distance learning (ODL), massive open online courses (MOOCs), and micro-credential offerings. Through various forms of assistance and support, it empowers academic staff and curriculum developers, while also nurturing student growth via learning support programmes aimed at nurturing holistic graduates. The Centre also promotes research on teaching and learning practices (SOTL), as well as disseminates findings to faculty members and the students by fostering evidence-based teaching and learning.

Achievement/Event		
No.	Date	Achievement/Event Conducted
1.	4 Aug 2023	Teaching Excellence Awards & Blended Learning Best Practices Awards Semester 1 & Semester 2, 2022/2023
2.	-	Pemenang Anugerah Keselamatan & Kesihatan Pekerjaan UNITEN 2023 Digital and Learning Centre
3.	21 & 22 Nov 2023	International Conference on Advancing and Redesigning Education (ICARE'23)
4.	2 Aug 2023	Sesi Temubual Bersama Panel Penilai MQA Bagi Audit Pematuhan Swaakreditasi
5.	22 Aug 2023	GLU-Ed Education Visit @ UNITEN (in conjunction with Hybinar UNLEASHING THE POTENTIAL OF GENERATIVE AI TOOLS IN TEACHING AND LEARNING)



**International University
Carnival on E-Learning
(IUCEL) 2023**

**Invention, Innovation &
Design on E-Learning
(IIDEL) Competition**



Gold Medal - Prof. Ts. Dr. Manjit Singh Sidhu

- STEM: 3D UX Interactive System on Machinery Gears Recognition

Gold Medal - Ts. Mahlindayu Binti Tarmidi @ Tokhid

- ODL ME - Technical Assistance for Developers

Gold Medal - Rusli Abdul Roni

- Nota Interaktif Dalam Talian Sirah (Niat Sirah) untuk Ujian Penilaian Kelas Kafa (UPKK)

Gold Medal - Maizatul Akmar Mohd Rali

- Empowering Personal Branding E-Module (EPBE)

Training & Activities



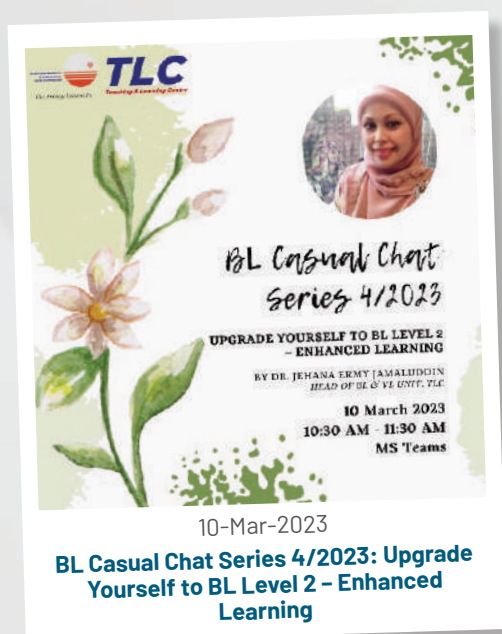
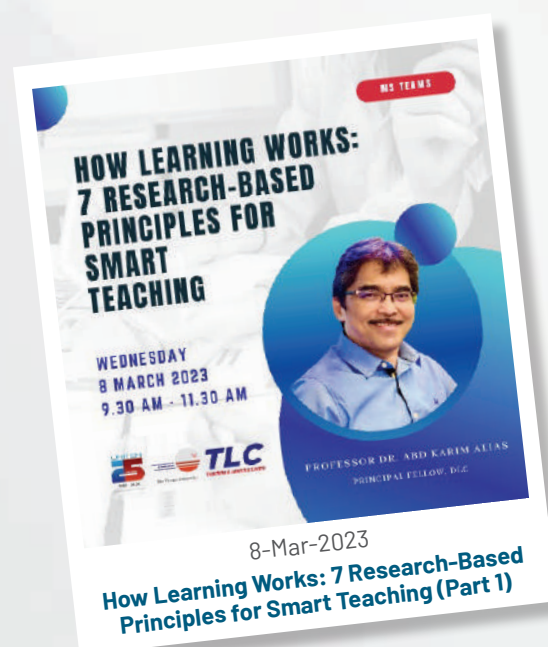
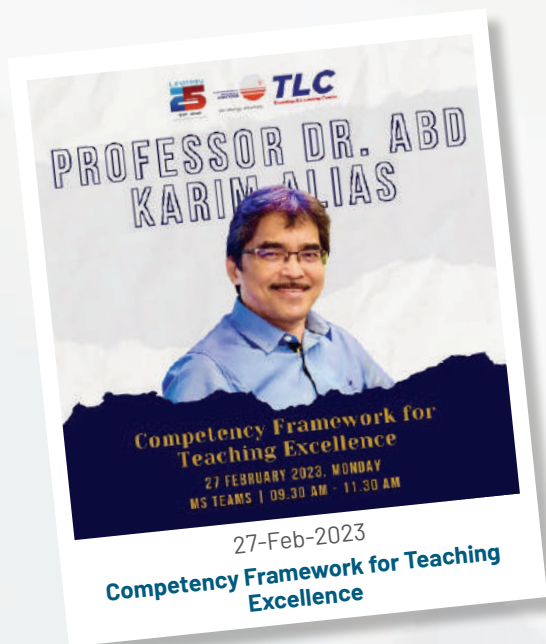
17-Feb-2023

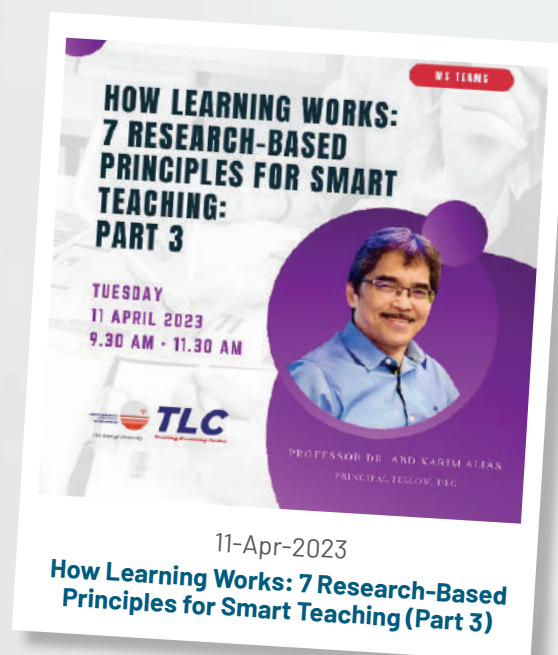
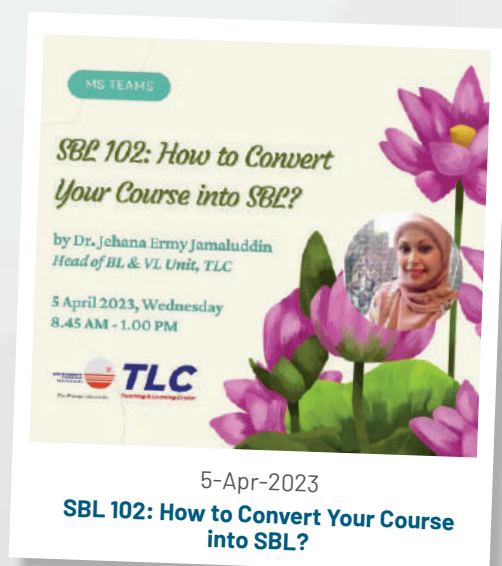
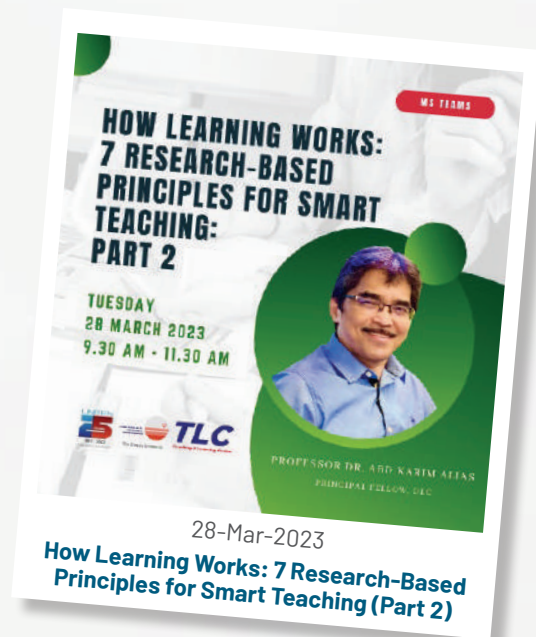
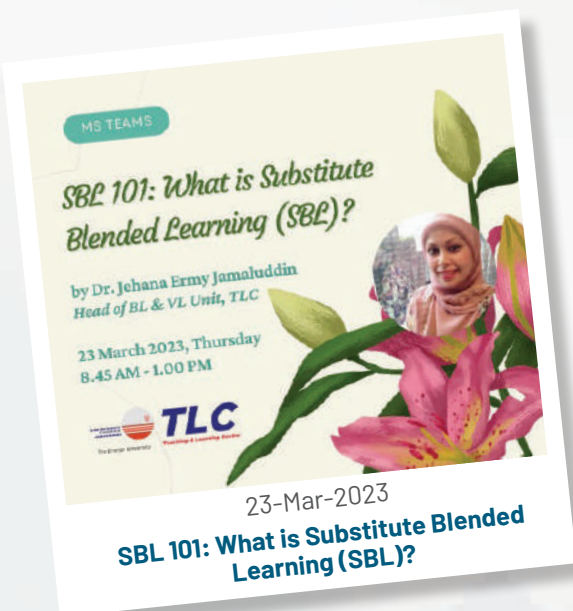
**BL Casual Chat Series 1/2023: What is
Substitute Blended Learning (SBL)?**



24-Feb-2023

**BL Casual Chat Series 2/2023:
How Do I Implement SBL?**





14-Apr-2023
Setting carrying marks distribution in
LMS Brighten

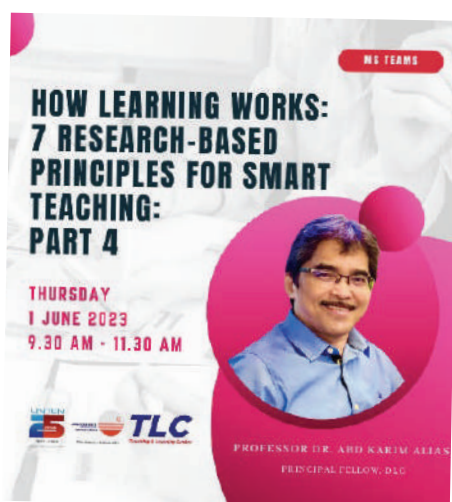
18-May-2023
Managing Curriculum Review By
Ensuring Constructive Alignment



25-May-2023
BL Casual Chat: Tech Up Your Teaching
Game for Successful Blended Learning



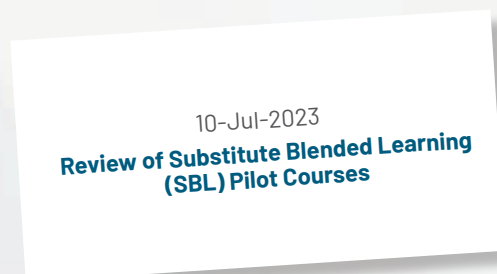
26-May-2023
Creating Engaging Online Learning
Environments with the Community of
Inquiry (CoI) Framework

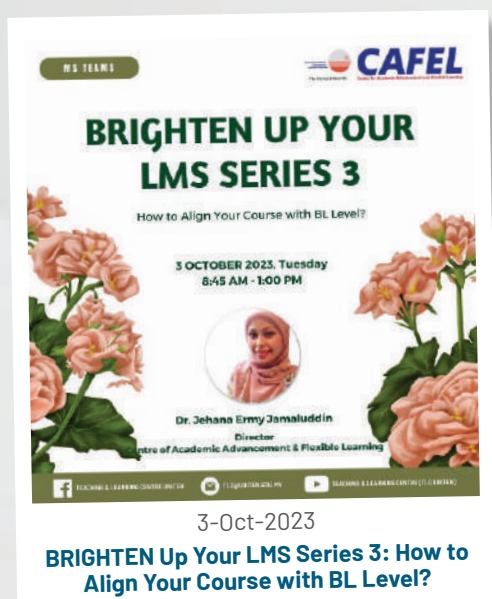
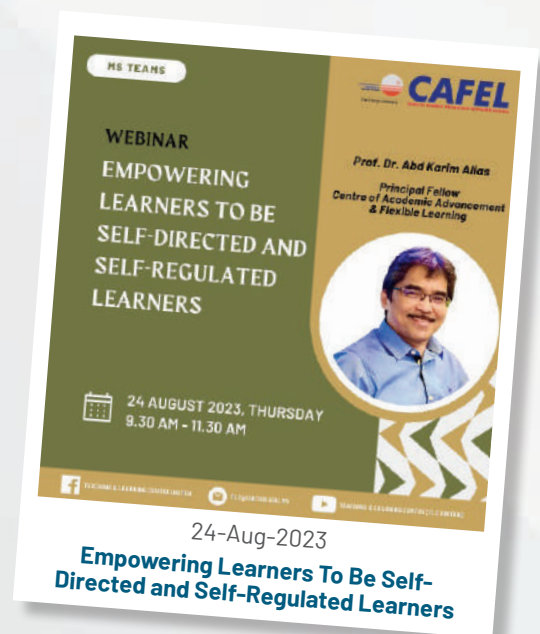


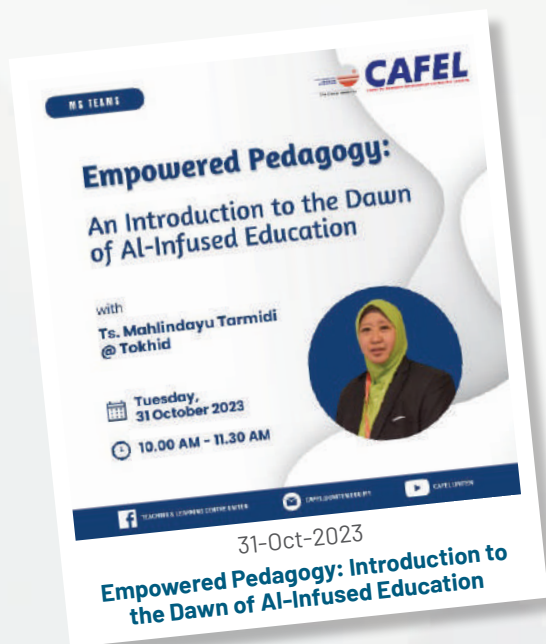
1-Jun-2023
How Learning Works: 7 Research-Based
Principles for Smart Teaching (Part 4)



9-Jun-2023
BL Casual Chat Series 5/2023: Upgrade
Yourself to BL Level 3 - Flipped
Teaching and Learning









UNIVERSITY RANKINGS: A TESTAMENT TO EXCELLENCE

UNIVERSITY RANKINGS: A TESTAMENT TO EXCELLENCE

UNITEN's standing in global and regional rankings in 2023 highlights our unwavering commitment to educational excellence, impactful research, and community empowerment. Our achievements across various prestigious ranking systems underscore our role as a leading institution in shaping the future.

Ranking:

#761-770 in the QS World University Rankings (WUR) 2024

#164 in the QS Asia University Rankings (AUR) 2024

#451-500 in the QS World University Rankings by Subject 2023 : Engineering & Technology

#301-350 in the QS World University Rankings by Subject 2023 : Engineering – Electrical & Electronic

#711-720 in the QS World University Rankings: Sustainability 2024

#601-800 in the THE World University Rankings (WUR) 2024

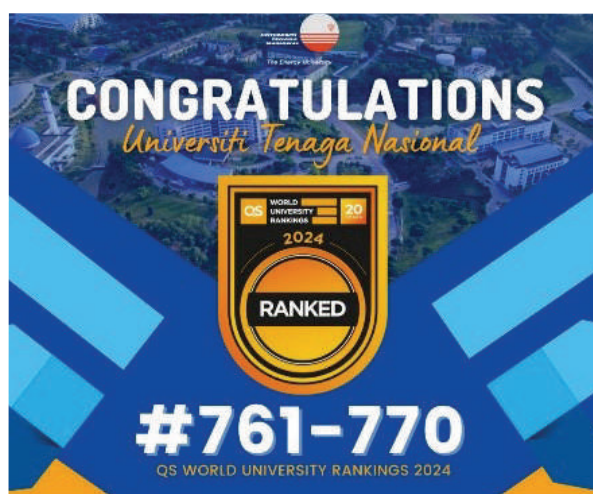
#201-250 in the THE Asia University Rankings (AUR) 2023

#501-600 in the THE World University Rankings by Subject 2024 : Engineering

#601-800 in the THE World University Rankings by Subject 2024 : Computer Science

QUACQUARELLI SYMONDS (QS) RANKINGS

QS World University Rankings (WUR) 2024: UNITEN is proudly ranked in the **#761-770** range worldwide. This recognition reflects our international standing and the quality of education and research we offer. Our global ranking signifies the university's reputation for academic excellence and our ability to compete on a world stage.



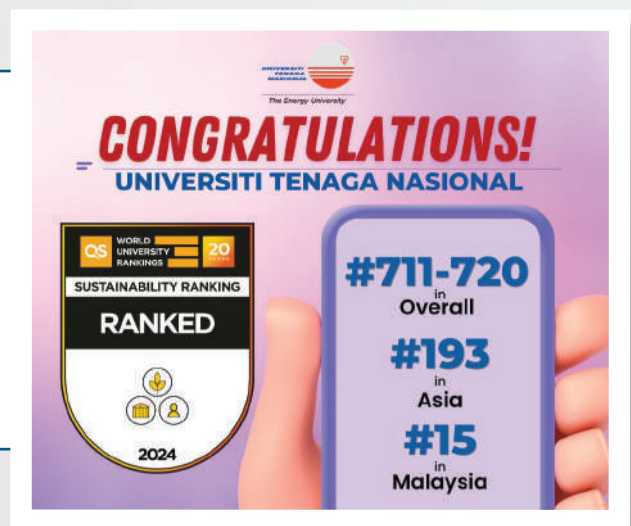
QS Asia University Rankings (AUR) 2024: Upon achieving the **#164** position in Asia, UNITEN strengthens its presence as a leading educational institution in the region. This ranking underscores our impact and contribution to higher education in Asia, while demonstrating our growing influence and quality of academic offerings.

QS World University Rankings by Subject 2023: Engineering & Technology: UNITEN is ranked **#451-500** in **Engineering & Technology**, showcasing our strengths in these critical fields. Our programmes and research in engineering are designed to equip students with the skills needed to excel in a rapidly evolving technological landscape.



QS World University Rankings by Subject 2023: Engineering - Electrical & Electronic: In the specialised field of **Electrical & Electronic Engineering**, UNITEN holds a position in the **#301-350 ranking**. This ranking highlights our expertise and leadership in electrical and electronic engineering, while reflecting our commitment to innovation and technical excellence.

QS World University Rankings: Sustainability 2024: For the first time, UNITEN is featured in the **QS Sustainability Rankings**, within the **#711-720 ranking**. This inclusion highlights our dedication to sustainability and social responsibility, as well as reflecting our efforts to integrate environmental and social governance into our educational and operational practices.



TIMES HIGHER EDUCATION (THE) RANKINGS



THE World University Rankings (WUR) 2024: According to the **Times Higher Education (THE)**, UNITEN is placed in the **#601-800** ranking globally. This ranking highlights our position among the top universities worldwide, which showcases our robust academic programmes and research initiatives that resonate on a global scale.

THE Asia University Rankings (AUR) 2023: In the **THE Asia Rankings**, UNITEN is ranked **#201-250**, reflecting our significant role and reputation in the Asian higher education landscape. This achievement highlights our continued progress and commitment to excellence within the region.



THE World University Rankings by Subject 2024: Engineering: Achieving a rank within the **#501-600** in **Engineering**, UNITEN continues to demonstrate its strength in engineering education and research. This placement underscores our focus on delivering high-quality engineering programmes that prepare students for successful careers.

THE World University Rankings by Subject 2024:

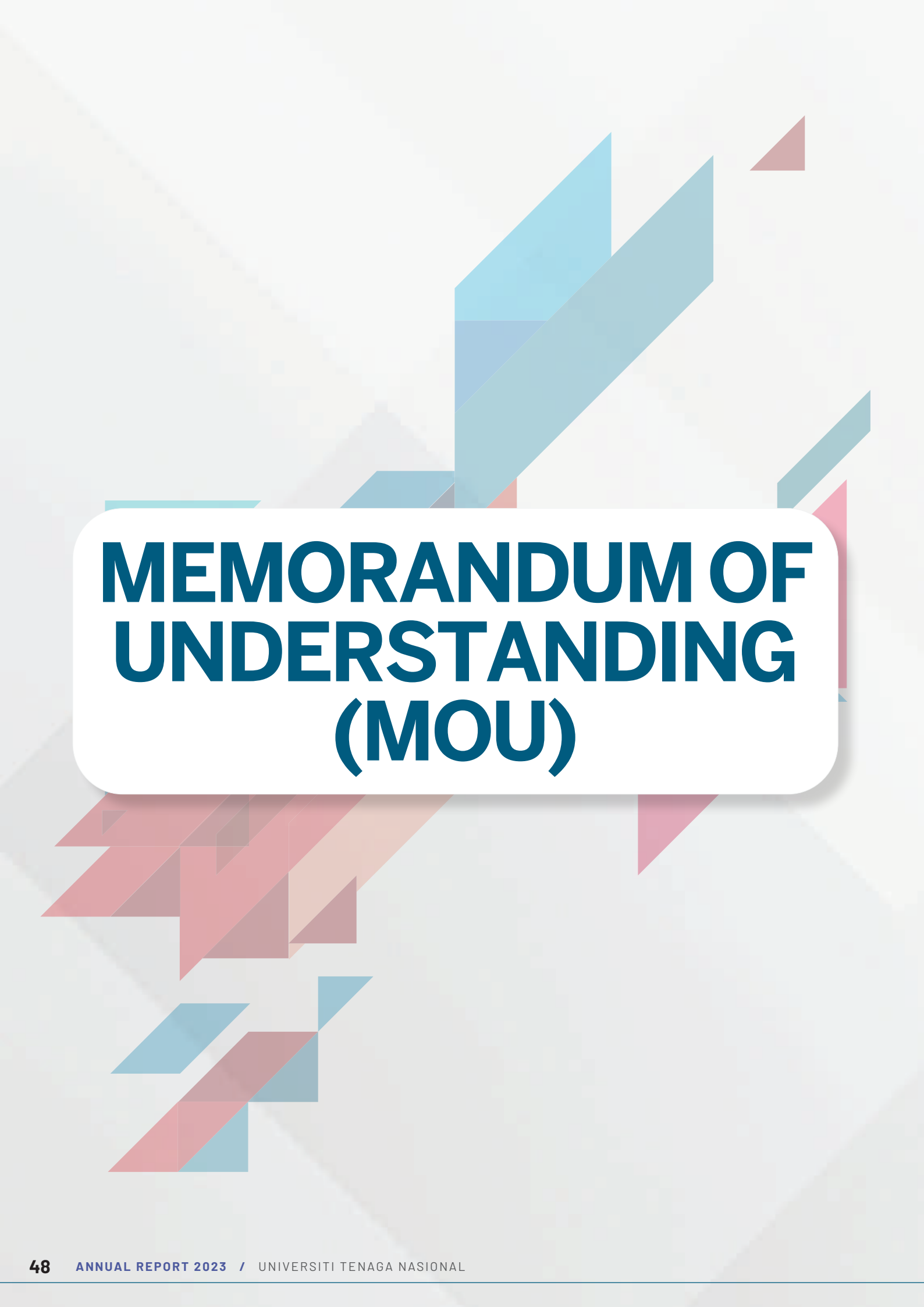
Computer Science: Ranked within the #601-800, UNITEN reaffirms its growing influence in the field of Computer Science. This accomplishment highlights our dedication to fostering innovation and excellence in digital technologies, thus shaping future-ready graduates for the evolving energy and tech industries.



Looking Ahead

As we celebrate these achievements, we remain focused on our vision to continuously empower students and the community. Our rankings are not just numbers but a reflection of our collective efforts towards excellence, innovation, and social responsibility. We are committed to advancing our programmes, enhancing our research, and fostering an environment that prepares our students for the future.





MEMORANDUM OF UNDERSTANDING (MOU)

MEMORANDUM OF UNDERSTANDING (MOU)

UNITEN and KAB Strengthen Collaboration with MoU (25 Mei 2023)

Universiti Tenaga Nasional (UNITEN) has signed a Memorandum of Understanding (MoU) with Kejuruteraan Asastera Berhad (KAB) to provide opportunities for the exchange of expertise, experience, and skills. This strategic partnership is established for mutual benefit and aims to advance the engineering and energy sectors in the country.

This collaboration seeks to promote various activities, including exploring, discussing, and negotiating student sponsorships for undergraduate programmes. Additionally, this partnership will facilitate arrangements for consultancy and research services provided by UNITEN experts.

It could also facilitate the development and evaluation of curricula that are aligned with the needs of the industry, as well as in promoting KAB's activities and initiatives to the UNITEN community.

The MoU was signed by Datuk Dr. Ong Peng Su, the Non-Executive Chairman of KAB, and Professor Ir. Dr. Noor Azuan Abu Osman, the Vice Chancellor of UNITEN, with Datuk Lai Keng Onn, the Group Managing Director of KAB, and Associate Professor Dr. Mohd Ezanee Rusli, the Chief Operating Officer of UNITEN, as witnesses.

The MoU is effective from May 25, 2023, for a period of five years.



UNITEN Signs MoU with Four International Institutions to Advance Academic Excellence (26 May 2023)

Universiti Tenaga Nasional (UNITEN) has signed memorandums of understanding (MoU) with Central Queensland University and Aviation Australia in Australia, and Al-Maaqal University and Al-Mustaqbal University in Iraq in its commitment to foster global partnerships and advance academic excellence.

According to UNITEN, these collaborative agreements aim to facilitate a range of initiatives, including the development of joint programmes, collaborative research projects, student exchange and mobility programmes, as well as professional development opportunities for academic staff. The partnerships will also foster academic exchanges, enabling the sharing of knowledge, publications, and academic materials.

Expressing his enthusiasm for the new international collaborations, UNITEN Vice-Chancellor Prof. Dr. Noor Azuan Abu Osman said these partnerships demonstrated that the university was on the right path towards better things.

"We are thrilled to embark on this internationalisation effort through the signing of these MoUs. This strategic move showcases UNITEN's unwavering commitment to global engagement and highlights our dedication in providing our students and faculty with engaging, yet transformative, educational experiences," he said in a statement today.

The signing ceremony, held at UNITEN, saw its Vice-Chancellor, Dr. Noor Azuan, the Dean of School of Engineering and Technology, Central Queensland University, Prof. Steve Hall, the Executive Dean of the Aviation Australia Higher Education and Emerging Technologies, Prof. Talal Yusaf, the Chancellor of the Al-Maaqal University, Prof. Dr. Badir N. Albadran, and the President of the Al-Mustaqbal University, Prof. Dr. Hasan Shakir Majdi signing the MoU.

UNITEN and ITPLN Sign MoU to Enhance Educational Collaboration (26 Januari 2023)

Universiti Tenaga Nasional (UNITEN) has partnered with Institut Teknologi Perusahaan Listrik Nasional (ITPLN) from Indonesia in the fields of education and research through a Memorandum of Understanding (MoU) signed in Bali on January 18.

The MoU was signed by UNITEN's Vice-Chancellor, Professor Ir. Dr. Noor Azuan Abu Osman and ITPLN's Rector, Dr. Iwa Garniwa M K, MT, witnessed by Professor Dato' Dr. Mazliham Mohd Su'ud, Chairman of Government-Linked Universities (GLU) Malaysia.

The MoU was formalised following the High-Level Management Meeting between (GLU) Malaysia and Aliansi Perguruan Tinggi Badan Usaha Milik Negara Indonesia (APERTI BUMN).

This agreement provides opportunities for students from both countries to receive high-quality education. Through this collaboration, UNITEN and ITPLN will work together on student and staff mobility programmes.

Additionally, the MoU covers academic academic programmes, including dual degree offerings, collaborative research such as matching grants and joint publications, hosting international conferences, training, and other areas that benefit both institutions.



The MoU followed the meeting between Malaysian Prime Minister, Dato' Seri Anwar Ibrahim, and Indonesian President, Joko Widodo, at the Istana Negara, Bogor, Indonesia.

UNITEN, an educational arm of Tenaga Nasional Berhad (TNB), and ITPLN, the educational branch of Perusahaan Listrik Negara (PLN) Indonesia, are responding positively to the call of both nations' leaders to enhance collaboration in higher education and research.

We hope this partnership will drive institutional and group synergies, leading to impactful research contributions to the global community, and the development of dynamic and progressive human capital for both Malaysia and Indonesia.



UNITEN and ACE ink MoU to Enhance Research and Innovation Activities in Energy Transition (26/8/2023)

Universiti Tenaga Nasional (UNITEN) and the ASEAN Centre of Energy (ACE) are collaborating in the research and innovation activities in the field of energy transition through the signing of a Memorandum of Understanding (MoU).

As part of the MoU, the two parties will cooperate in energy modelling projects, energy and environment relations, as well as business-related areas, such as energy management, energy security, and economics.



The Vice-Chancellor of UNITEN, Prof. Ir. Dr. Noor Azuan said, this collaboration will also involve academic exchange activities, knowledge sharing, organising international conferences, producing policy papers, publications, and academic materials for the benefit of stakeholders in the energy field.



"This MoU is in line with the implementation of the ASEAN Plan of Action for Energy Cooperation (APAEC) between UNITEN and ACE based on equality and mutual benefit," said Azuan.



He hoped that the MoU with ACE could strengthen UNITEN's involvement as a 'think tank' by contributing the university's expertise in providing multidisciplinary studies in the field of energy at the ASEAN level.

The MoU was signed by the Vice-Chancellor of UNITEN, Prof. Ir. Dr. Noor Azuan Abu Osman and the Executive Director of ACE, Dr. Nuki Agya Utama at the ASEAN Energy Business Forum (AEBF) 2023 in Bali, Indonesia.

UNITEN and BEM strengthen strategic cooperation to empower future engineers

22 August 2023 - A Memorandum of Understanding (MoU) between Universiti Tenaga Nasional (UNITEN) and the Board of Engineers Malaysia (BEM) was signed to facilitate the bulk registration of UNITEN engineering graduates as Graduate Engineers and Inspectors of Works with BEM.

The signing ceremony and mock cheque presentation took place on 22 August 2023 at the MATRADE Exhibition and Convention Centre (MECC), Kuala Lumpur, in conjunction with the Opening Ceremony of the BEM Convention 2023. The event was officiated by the Minister of Works, YB Dato' Sri Alexander Nanta Linggi.



Among the universities involved in this convention were Universiti Teknologi Mara, Universiti Malaya, Heriot-Watt University Malaysia, Infrastructure University Kuala Lumpur, Multimedia University, Universiti Tenaga Nasional, and International Islamic University Malaysia.

Engineering graduates will be assisted by their respective universities in the registration process with BEM. The board has registered approximately 14,000 graduates annually for the last five years.

As part of its corporate social responsibility (CSR) efforts, BEM will donate RM10,000 per university for five years to those that sign an MoU with the board. The donation will be awarded to outstanding engineering graduates at their convocation ceremony under the BEM President Award.

The Vice-Chancellor of UNITEN, Professor Ir. Dr. Noor Azuan Abu Osman received the mock cheque from the minister.



19 Higher Education Institutions Sign Agreement for Professional Registration with the Malaysia Board of Technologists (October 18, 2023)

A total of 19 Higher Education Institutions (HEIs) and Skills Training Institutes (ILKs) have, for the first time, signed a Memorandum of Understanding (MoU) with the Malaysia Board of Technologists (MBOT), which would enable graduates to register as members of the professional body.

This agreement marks a significant milestone for the nation's higher education sector, as graduates from programmes accredited by MBOT will be automatically eligible for professional registration. MBOT's academic program accreditation ensures that graduates meet the necessary competencies to become professional technologists or technicians. Moreover, MBOT's accreditation aligns with the latest technological developments and industry demands in terms of competency and employability.

The recognition was formalised through the MoU, involving academic collaboration between MBOT and the following HEIs and ILKs:

1. Universiti Malaysia Perlis (UniMAP)
2. Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)
3. Universiti Teknikal Malaysia Melaka (UTeM)
4. Universiti Tun Hussein Onn Malaysia (UTHM)
5. Universiti Sains Islam Malaysia (USIM)
6. Universiti Malaysia Kelantan (UMK)
7. Universiti Teknologi Malaysia (UTM)
8. Universiti Tunku Abdul Rahman (UTAR)
9. Universiti Teknologi Petronas (UTP)
10. Monash University Malaysia
11. Tunku Abdul Rahman University of Management and Technology (TAR UMT)
12. International Medical University (IMU)
13. Universiti Tenaga Nasional (UNITEN)
14. Peninsula College Malaysia
15. UCSI University Bangladesh Branch Campus
16. Kolej Universiti TATI (UC TATI)
17. INTI International University
18. Management and Science University (MSU)
19. Terengganu Skills Development Centre (TESDEC)

The MoU signing ceremony was held in conjunction with the MBOT Technology and Technical Education Townhall 2023 on 17 October in Putrajaya. This event gathered 150 participants, including Vice-Chancellors, Deputy Vice-Chancellors, and institutional representatives.





FINANCIAL SUSTAINABILITY

FINANCIAL SUSTAINABILITY

Building a Resilient Future

At Universiti Tenaga Nasional (UNITEN), financial sustainability is not just a goal; it is a core principle that guides our operations and strategic planning. Our commitment to financial health ensures that we continue to provide high-quality education, support cutting-edge research, and invest in the future of our students and faculties.



YCU

Yayasan Canselor Universiti Tenaga Nasional (YCU) was established in 2009, with the objective of administering and distributing funds for educational and charitable purposes, such as Dermasiswa for deserving students, financial assistance for student activities, research grants, and supporting teaching and learning activities, as well as community work.

YCU aims at increasing its endowment fund through fundraising initiatives from individual and corporate donors, sponsors, and partners to help build financial support, which is integral to realising YCU's objectives, as stipulated in YCU Trust Deed. All contributions to YCU will benefit from tax exemption under subsection 44(6) of the Income Tax Act 1967.

Students are future leaders of our nation and education is the key to change the world. YCU is proud to be a catalyst towards nation-building and will continue to provide assistance in any kind to those in need and deserving students. Yayasan Canselor Universiti Tenaga Nasional: "Realising Dreams, Generating Excellence".

***Total collection in 2023: RM37,704,210**

***Disbursement**

Indicator	Total (RM) 2023
Educational Development	34,850,900
Research Development	16,000,000
Co-organising / Community Programmes	1,745,851
Administration	134,887
Total	52,731,638

TAZU

Tabung Amanah Zakat UNITEN (TAZU) was established in 2010 upon signing a Memorandum of Agreement (MoA) with Lembaga Zakat Selangor (LZS). Under this agreement, TAZU UNITEN is the appointed Amil Assistant and is given the mandate to collect and distribute zakat among the asnaf in UNITEN, namely, those under the category of "Fakir," "Miskin," "Muallaf," "Fisabilillah," and "Ibnu Sabil".

Collection of zakat & wakaf (may add or remove any)

Indicator	Total (RM)
Zakat	11,071,399.61
Wakaf	550,319.00
Total	11,621,718.61

Disbursement of Zakat

Assistance per Semester	4,076,745.02
TAZU'S Distribution Programme	637,034.70
General Donations	594,714.93
Total	5,308,494.65

Disbursement of Zakat

Asnaf Fakir	729,616.45
Asnaf Miskin	2,422,884.91
Asnaf Muallaf	1,429.90
Asnaf Fisabilillah	2,154,563.39
Asnaf Ibnusabil	0.00
Total	5,308,494.65

Disbursement of Zakat

TAZU Education Scholarship (Tahfiz)	1,755,967.33
-------------------------------------	---------------------





HOLISTIC STUDENT DEVELOPMENT

HOLISTIC STUDENT DEVELOPMENT

Student activities

Introduction

In 2023, UNITEN continued its commitment to provide a vibrant student life through 6 activities that align with its SCORUN pillars.



**Ethics
& Humanity**



**Leadership
& Communications**



**Sport
& Recreational**



**Art
& cultural**



Entrepreneurship



Intellectuality

These pillar aim to enhance students' personal growth, social awareness, and social responsibility engagement.

Varsity Track & Field Championships (VTF 1)

10 Mac 2023 | Universiti Teknikal Melaka 100M - Male

Congratulations!! Muhammad Fakhru Abdul Aziz!

Gold medal in the Men's 100 meters at the Varsity Track & Field Championships (VTF 1).



VARSITY TRACK & FIELD CHAMPIONSHIP			
116 - 100 M LELAKI - AKHIR			
UNOFFICIAL RESULT			
1	UNITEN	262 MUHAMMAD FAKHRUL BIN ABDUL	10.50
2	UPM	288 MOHAMMAD THAQIF MOHAMMAD	10.52
3	UPM	284 MUHAMMAD ZULFIQAR BIN ISMAIL	10.56
4	UITH	191 MUHAMMAD AQIL BIN YASMIN	10.75
5	UNITMAP	168 MUHAMMAD FARIS BIN	10.80
6	UPSI	169 MUHAMMAD YUSRIDWAN DANIAL	10.83
7	UNITMAP	165 MUHAMMAD RAIMI BIN MUSTAFFA	10.84
8	UPSI	176 MUHAMMAD AMIR ARSHAD BIN	11.26



Congratulations to KPT - UNITEN Thunder for your outstanding achievements!

Being the runner-ups in the Vivan May Soar Cup 2023, the Sumbangsih Cup 2023, and the TNBMHL League 2023 are truly commendable.



Congratulations to the UNITEN Netball Team for becoming champions at the Masiswa Netball Championship 2024 . That's an impressive achievement and a testament to your hard work and strong will.



Majlis Mesra Mahasiswa Orang Asli 2023

This event was organised in an effort to support and motivate Orang Asli students at UNITEN KSHAS. YB Dato' Sri Syed Ibrahim bin Syed Ahmad, the Executive Councillor for Islamic Affairs and Orang Asli Affairs in Pahang, attended this event to demonstrate the government's commitment to this community.



His encouraging words, along with gifts and pocket money for the students, made a real difference. The presence of Dato' Dr. Haji Zulkifle bin Haji Ali Al-Hafiz and officials from JAKOA Muadzam Shah highlighted the teamwork among government agencies in their effort to assist/to provide assistance for these students.

PARLIMEN MAHASISWA KEBANGSAAN 2023

Luqman Hafiz represented the Student Representative Council of Universiti Tenaga Nasional at the Parlimen Mahasiswa Kebangsaan 2023, held at the International Islamic University Malaysia. This event gathered 187 representatives from various universities across the country, including public and private institutions, teacher training institutes, polytechnics, and community colleges.



UNITEN Student Represents Malaysia at the 63rd International Al-Quran Recitation and Memorisation Assembly for 1445H

Ahmad Ikmal Mohd Ridhuan, a second-year Electrical and Electronic Engineering student at UNITEN and also a Tahfiz student, was crowned the National Quran Recitation Champion (MTHQK) 1444H/2023M with a score of 97.16%.



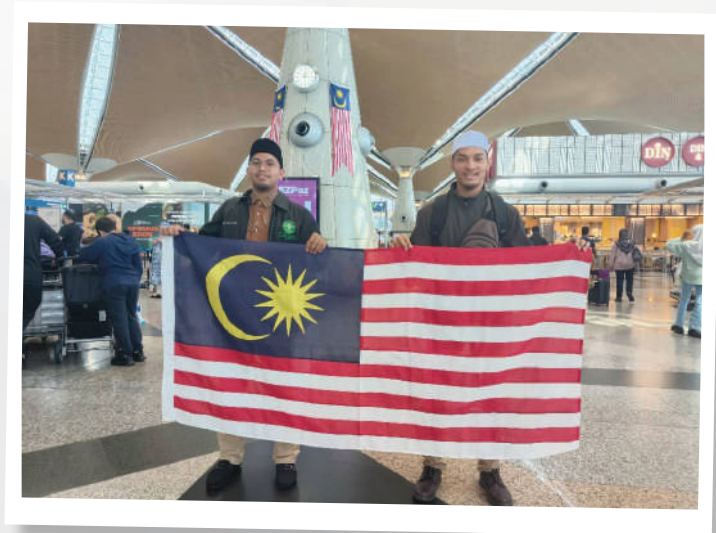
UNITEN Tahfiz student crowned National Quran Recitation Champion (MTHQK) 1444H/2023M.

UNITEN Tahfiz student, Brother Ahmad Ikmal Mohd Ridhuan, a second-year student in the Bachelor of Electrical and Electronic Engineering (Honours) programme, has been crowned the National Quran Recitation Champion (MTHQK) for the year 1444H/2023M.



UNITEN Tahfiz Student Represents Malaysia at The 43rd King AbdulAziz International

Ahmad Ikmal bin Mohd Ridhuan, a third-year Electrical and Electronic Engineering student at UNITEN and participant in the UNITEN Professional Hufaz programme, represented Malaysia at the 43rd King Abdulaziz International Competition for the Memorisation, Recitation, and Interpretation of the Holy Quran. This competition, organised by the Saudi Arabian government, took place in Mecca from August 25 to September 6, 2023.



UNITEN KSHAS Champion & Runner-Up at Pahang Entrepreneur Day Carnival 2023

UNITEN KSHAS emerged as the Champion and Runner-Up in the Business Proposal Challenge for Higher Education Institutions at the Pahang Entrepreneur Day Carnival 2023. The champion team, consisting of Wan Qistina binti Wan Izahan Zameree and Abd Muiz bin Ahmad Sabri, received prizes and a trophy sponsored by Maybank. The runner-up team, made up of Abidatulmunirah binti Abidin and Lam Yit Wern, also received awards for their outstanding performance.



Appointment Ceremony for UNITEN Student Council (MPP) 2023

Student Representative Council (MPP) at Universiti Tenaga Nasional (UNITEN) for the 2023-2024 session received their appointment letters from the Deputy Vice-Chancellor, Associate Professor Dr. Abdul Aziz Mat Isa, at the UNITEN Putrajaya campus. The MPP acts as a link between students and university management for sharing information and students' concerns. Both UNITEN management and the MPP are committed in fostering a strong partnership for the benefit of all students.



TAHSIN BERSANAD DI BUMI MESIR

A total of 28 outstanding Tahfiz students from UNITEN participated in the Tahsin al-Quran Bersanad di Bumi Mesir from 27 September to 11 October 2023. The objective of this programme was to deepen students' understanding of Quranic studies through the authentic methods of talaqqi and musyafahah, where they learn directly from verified scholars (sheikhs). This programme also aimed to enhance students' knowledge of Tajwid and to obtain a sanad (chain of transmission) for their Quranic recitation.



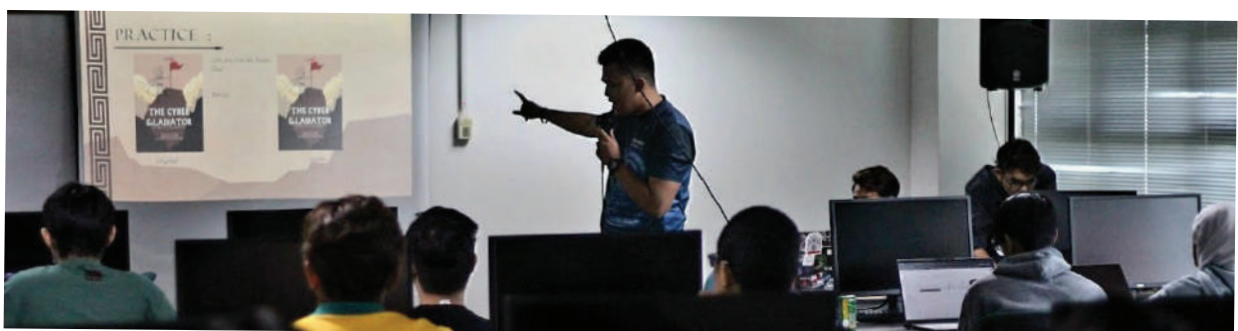


Journey Into the World of Capture the Flag (CTF).

CCI, together with our energetic and innovative students, organised the first of many upcoming workshops on Capture the Flag (CTF), which is a cyber security competition. Participated by 37 students from different majors, this session was delivered by our Bachelor of Computer Science (Cyber Security)



(Hons.) student, Nik Amir Hakim. The aim of this workshop was to give early exposure on Capture the Flag (CTF) competition where competitors are required to take, search or exploit systems to obtain files or hidden information through a series of cyber security related tasks. Among others, the content of this session included cryptography, reverse engineering, web exploits, and other security tasks. What an eventful and fun session it was!





ALUMNI

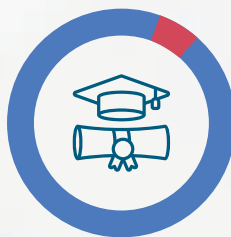
ALUMNI

UNITEN remains dedicated to staying connected with both alumni and current students by offering opportunities for volunteering, networking, and pursuing shared interests. We are committed to fostering a strong, supportive relationship between the alumni community and the university, which would ensure lifelong engagement and collaboration. engagement and collaboration.

Total Graduates



40,087



**Malaysian
38,025**

**International
2,062**



361



2,020



32,183



5,522



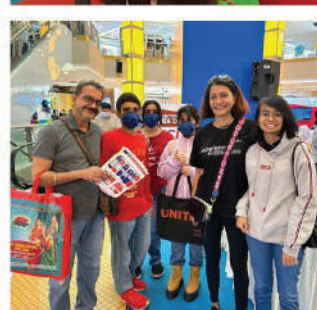
Here are some notable UNITEN Alumni

No	Name	Program	Year of Graduation	Current Position	Company
1	Direshkumar Padmanathan	Master of Engineering Management	2019	Project Manager	Ranhill Solar I Sdn. Bhd.
2	Ir. Fong Seik Foo, Ben	Bachelor of Electrical and Electronics Engineering (Hons.)	2008	Director	Oracle M&E Consult Sdn. Bhd.
3	Ir. Ts. Thivhananthan Thamilselven	Bachelor of Electrical and Electronics Engineering (Hons.)	2017	Testing & Commissioning Manager	PESTECH Technology Sdn. Bhd.
4	Suriana Hanum Binti Lokman	Bachelor of Mechanical Engineering (Hons.)	2012	Testing & Commissioning Manager	Skyborn Renewables Taiwan
5	Kabeenesh Surenthiran	Bachelor of Mechanical Engineering (Hons.)	2019	Senior Lean Consultant	New Value Gate Pte Ltd
6	Ir. Ts. Ramkee Maran	Bachelor of Mechanical Engineering (Hons.)	2015	Assistant Manager, Steam cum Mill Operation	Olam Palm Gabon, Republic of Gabon, CA
7	Wan Mohd Jihaduddin Bin Wan Hassan	Bachelor of Mechanical Engineering (Hons.)	2012	Executive (Quality Compliance)	PETRONAS
8	Amirol Ariz Bin Johari	Bachelor of Civil Engineering (Hons.)	2018	Internal Audit Executive	Tenaga Nasional Berhad
9	Azrul Azim Bin Badarul Izam	Bachelor of Electrical Power Engineering (Hons.)	2022	Maintenance Planning Engineer 11kv/Lv	Tenaga Nasional Berhad
10	Ts. Viknesvaran A/L Govindasamy, Pmp®	Bachelor of Civil Engineering (Hons.)	2012	Project Manager	Cergas Murni Sdn. Bhd.
11	Jonathan Johnny Rajatin	Bachelor of Mechanical Engineering (Hons.)	2018	Mechanical Piping Engineer	Ranhill Worley Sdn. Bhd.
12	Dr. Sarah Shahril	Doctor of Philosophy in Information and Communication Technology	2023	CEO	KARBON HERO

UNITEN Career Fair 2023- 29-30 MARCH 2024



UNITEN Open Day on 13 - 16 July 2023 @ Sunway Pyramid



UNIVERSITI TENAGA NASIONAL
Putrajaya Campus

Jalan IKRAM-UNITEN
43000 Kajang, Selangor
T: +603-8921 2020

Sultan Haji Ahmad Shah Campus (KSHAS)

Wisma Sultan Haji Ahmad Shah
26700 Muadzam Shah, Pahang
T: +609-455 2020

www.uniten.edu.my