

Inclusivity & Sustainability in Education

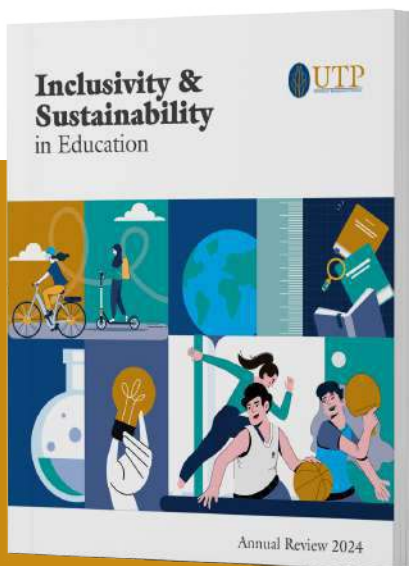


Annual Review 2024



Contents



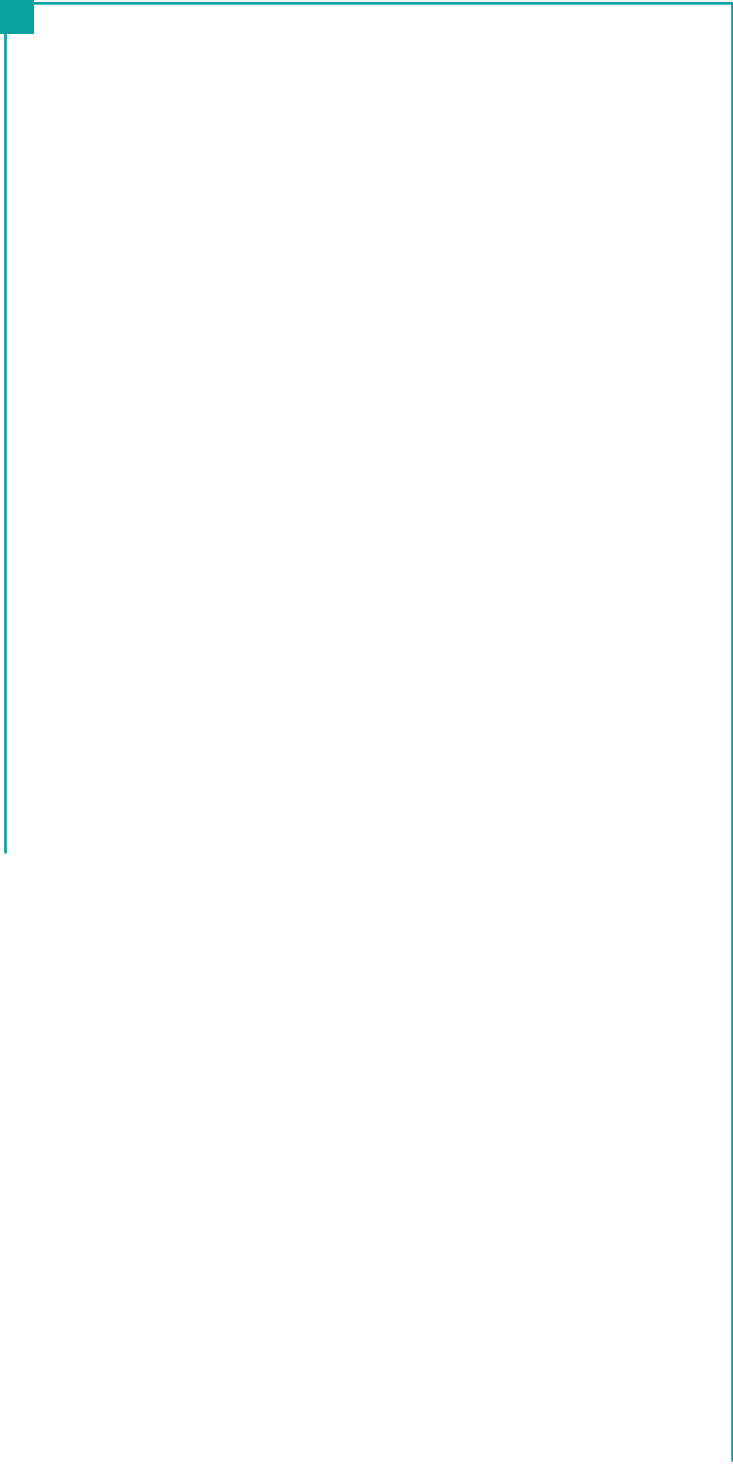
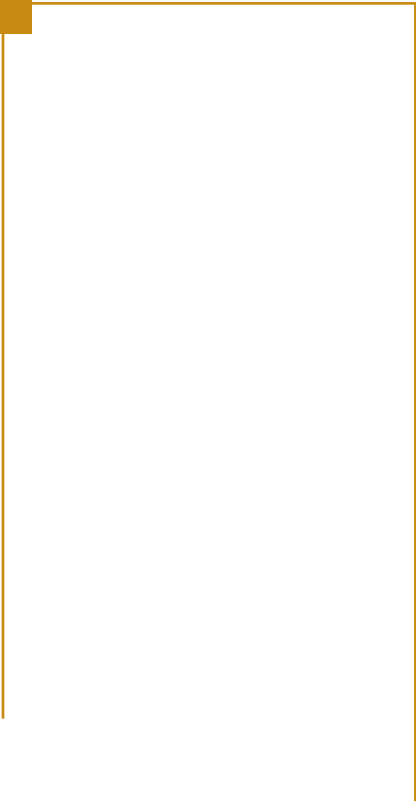


Cover Rationale

Our annual review cover highlights our dedication to addressing global Environmental, Social and Governance (ESG) challenges and developing future changemakers. It showcases the dynamic relationship between sustainability and inclusivity within the university, visually communicating these core themes in education.

Vibrant illustrations depict a diverse student body actively learning and embracing sustainable practices, reflecting UTP's commitment to reducing its environmental impact and promoting healthy lifestyles. By embedding sustainability in all aspects of university life, UTP cultivates an environment where students become sustainability-conscious individuals ready to drive transformative change.

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Achievements and Accolades

NO

1

UNIVERSITY IN MALAYSIA
PRIVATE UNIVERSITY IN ASEAN



World
University
Rankings 2025
WORLD TOP 250

RANKED 32



World University
Rankings 2024
Young

RANKED 52



World University
Rankings 2024
Asia

RANKED 269



UTP Becomes Malaysia's First University Ranked Top 250 in THE World University Rankings

UTP has made history as the first Malaysian university to rank in the top 250 of the Times Higher Education (THE) World University Rankings 2025. This achievement reaffirms UTP's position as Malaysia's Number One university and the top private university in ASEAN.

This milestone is a testament to the dedication of UTP's faculty, staff, alumni, and industry partners, as well as the invaluable support from PETRONAS. With a commitment to excellence and innovation, UTP continues to push boundaries and strengthen its global standing.



UTP Maintains Position as Malaysia's Number 1 Young University for Four Consecutive Years

UTP has achieved a significant milestone in the Times Higher Education (THE) Young University Rankings 2024, rising 47 places to secure 32nd position—its highest ranking to date. This reinforces UTP's status as Malaysia's Number One university for the fourth consecutive year and highlights its growing global reputation.

Since its establishment in 1997, UTP has shown consistent progress, moving from the 151-200 band (2017-2018) to 32nd in 2024. This achievement reflects its commitment to world-class education, pioneering research, and sustainability-focused innovation. Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib attributes this success to the dedication of faculty, students, alumni, and industry partners, further strengthening UTP's role in producing future-ready graduates and supporting PETRONAS' Net Zero Carbon Emission (NZCE) 2050 vision.



■ UTP Retains Top Spot in Malaysia and ASEAN

UTP has once again solidified its position as Malaysia's Number One university and the top private university in ASEAN, according to the Times Higher Education (THE) Asia University Rankings 2024. This marks UTP's second consecutive year leading the region, reaffirming its commitment to academic excellence and global recognition.



■ UTP Soars into Top 300 of QS World University Rankings 2025

UTP has continued its remarkable ascent in global higher education, securing 269th place in the QS World University Rankings 2025—a 38-spot leap from its previous ranking of 307th. Out of 5,663 universities assessed, UTP now ranks among the top 18% globally, reinforcing its position as a leading institution. This achievement highlights UTP's commitment to academic excellence, pioneering research, and a dynamic learning environment.



Since 2016, UTP has steadily progressed from the 601-650 band to its current place in the top 300. It also holds 52nd place in Times Higher Education (THE) Asia Rankings and 32nd in THE Young University Rankings, making it Malaysia's Number One university. Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib credits this success to faculty, students, alumni, and industry partners, emphasising UTP's role in driving sustainability through education, research, and innovation. With a strong focus on science, engineering, and technology, UTP remains at the forefront of developing solutions for a greener future.

UTP Soars in QS World University Rankings by Subject 2024

UTP has made significant strides in the QS World University Rankings by Subject 2024, now ranked under Engineering & Technology and, for the first time, Natural Sciences. UTP's Engineering & Technology ranking rose 25 spots to 175th, with Petroleum Engineering at 20th and Mineral & Mining Engineering improving to 41st. Civil, Mechanical, Chemical, and Electrical & Electronic Engineering secured positions in the Top 200, while Computer Science & Information Systems advanced to the Top 400.

In Natural Sciences, Materials Science entered the Top 300, Chemistry moved to Top 350, and Physics improved to Top 450. Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Motalib emphasised UTP's commitment to world-class education, scientific advancement, and preparing students for leadership in a globalised world. These rankings reaffirm UTP's excellence and growing global reputation.



UTP Secures Third Consecutive Win at Putra Brand Awards

UTP has once again been recognised at the Putra Brand Awards, clinching its third consecutive win in the Education and Learning category. This year, UTP earned the bronze award, reaffirming its strong brand presence and excellence in education. Notably, it remains the only university outside the Klang Valley to receive this honour.

The Putra Brand Awards celebrate Malaysia's most preferred brands, with winners selected through a survey of over 11,000 respondents. UTP's continued success reflects its commitment to academic excellence, impactful branding, and its role in shaping future global leaders in science, technology, and engineering. The university remains dedicated to enhancing its stakeholder experience, ensuring exceptional service for students, parents, and partners.



Chairman's Statement



Puan Farehana Hanapiah
Chairman

As I present my inaugural Chairman's Statement for Universiti Teknologi PETRONAS (UTP), I am filled with pride in our institution's remarkable progress and steadfast commitment to excellence. In a world of rapid technological evolution and changing societal needs, UTP has responded with purpose and conviction, strengthening our position as a Leader in Technology Education while ensuring our graduates are equipped to be pioneers of change.

This year marks a significant milestone for UTP, demonstrated by our remarkable performance in the Times Higher Education (THE) Young University Rankings, where we advanced 47 positions to secure the 32nd spot globally. This achievement maintains our standing as Malaysia's number one university in these rankings for the fourth consecutive year since 2021. Notably, we have achieved this while defying the conventional approach that requires increased spending, bringing costs down through disciplined financial management without compromising our progress.

Our role extends far beyond producing degrees or driving research for its own sake. Education at UTP transcends the traditional dissemination of knowledge and classroom learning experience. We take pride in our holistic approach to developing well-rounded graduates who espouse humility, empathy, and accountability through experiential development. This includes multiple touchpoints such as arts and culture, community engagement and volunteerism, entrepreneurship, industrial internship, and international exposure through industry and academic partnerships.



A pivotal part of our transformation journey is the introduction of our new Bachelor of Integrated Engineering programme, set to welcome its first intake in September 2025. This programme embodies our commitment to future-proofing our students with the interdisciplinary skills necessary to thrive in an ever-evolving technological landscape and address societal challenges. In achieving this goal, the programme is specifically designed to develop six key personas in our graduates: Ecosystem Innovator and Entrepreneur; Agile Pioneer; Tech and Digital Champion; Customer-focused; Sustainability Advocate; and Value-driven Systems Thinker.

The development of our students as responsible citizens is also reinforced by their experience of sustainable living on campus. Throughout the year, we instil personal and collective responsibility towards sustainability efforts through practical initiatives such as reducing energy consumption, recycling waste, working on circular economy projects, and nature preservation as part of their daily campus activities.

UTP remains committed to fostering meaningful collaborations across sectors and borders, building networks that amplify our impact in addressing global challenges. Through strategic partnerships and knowledge sharing, we are actively developing a network of future-ready leaders and creating opportunities for lifelong learning that meet the evolving needs of the workforce and society.

As we chart our course from 2026 to 2030 and beyond, we remain committed to our Purpose of Existence - developing graduates who are not only Job Ready but will become Change Makers in Society. We will pursue focused research leveraging emerging technologies and create innovation hubs through cross-sector collaborations to address the grand challenges of the future.

We continue to advocate and pioneer the evolution of universities into dynamic centres that bridge academia, industry, government, and society—embracing the quadruple helix model. This approach ensures we prepare graduates to not only navigate this challenging and complex world but to lead it with resilience, innovation, and ethical principles.

I would like to express my gratitude to our Vice Chancellor, Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib, and the UTP community for their commendable hard work and commitment. My appreciation also extends to PETRONAS, our Board members, partners, sponsors and parents for their steadfast support of our mission to be an important lever in socio-economic growth and in the creation of a more inclusive and sustainable future.

Together, we are shaping UTP to be not only a centre of knowledge, innovation, and learning but also a platform to prepare the next generation of leaders who will be catalysts of change and beacons of equity and hope.

Puan Farehana Hanapiah
Chairman

**“As we chart our
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Society.”**



Speech

Puan Farehana Hanapiah
Chairman of Universiti Teknologi PETRONAS



In partnership with



Vice Chancellor's Report



**Prof Dato' Ir Ts Dr Mohamed
Ibrahim Abdul Mutalib**
Vice Chancellor

As the Vice Chancellor, I am deeply moved to share the extraordinary story of Universiti Teknologi PETRONAS (UTP) in 2024. This year has etched itself into our history through achievements that extend far beyond mere metrics and rankings.

Our university has not only upheld its commitment to excellence but has achieved unprecedented milestones in our quest to become a leading energy and technology university by 2050. The remarkable strides we have made reflect the collective dedication and unwavering spirit of our entire university community.

Ascending to Global Excellence

I am delighted to report that 2024 has been a transformative year, marked by extraordinary achievements across all fronts. Our ascent in global rankings has been significant – advancing 38 places to rank 269th globally in the QS World University Rankings 2025, placing us among the top 18% of universities worldwide.

In the Times Higher Education (THE) Asia University Rankings 2024, we climbed 11 spots to secure the 52nd position, reaffirming our status as the number one university in Malaysia and the leading private university in ASEAN for the second consecutive year.

Our momentum continued in the THE Young University Rankings 2024, where we leapt 47 places to rank 32nd globally, maintaining our position as Malaysia's top young university for the fourth consecutive year.

Beyond rankings, we have expanded our research collaborations with key industry players and global academic institutions, particularly in renewable energy, artificial intelligence, and smart manufacturing. UTP's strengthened commitment to sustainability is evident through pioneering initiatives in green mobility, renewable energy integration, and carbon neutrality strategies – achievements that underscore our dedication to driving meaningful impact on society while remaining at the forefront of energy and technology education.

Pioneering Initiatives and Partnerships

Among the year's notable achievements was the inauguration of Malaysia's largest outdoor Geological Rock Garden (UTP GRG), an innovative experiential learning hub that houses diverse rock formations, minerals, and fossils from Malaysia and beyond.

This state-of-the-art initiative not only enhances our students' hands-on learning experience but also serves as a valuable resource for researchers, industry professionals, and the wider geological community. Moreover, the UTP GRG hopes to enhance public awareness and scientific literacy by inviting schools, researchers, and the community to explore the geological wonders that shape Malaysia's landscape.

Our position as a thought leader in higher education was further cemented when UTP partnered with Times Higher Education to host the THE Campus Live Southeast Asia 2024. This prestigious gathering brought together academic and administrative leaders from across the region, fostering vital discussions on digital transformation, sustainability, and industry-academia collaboration. The event provided a platform for exchanging innovative ideas and best practices, while strengthening our networks with global academic and corporate partners.

Embracing a Hi-Tech, High-Touch Approach

At the heart of UTP's educational philosophy lies a unique balance between technological advancement and human-centric values. Our “hi-tech and high-touch” approach ensures that while we excel in energy and technology-related research, we remain equally committed to nurturing holistic, well-rounded graduates who are grounded in ethical leadership, social responsibility, and sustainability.

This philosophy manifests in our academic framework, which seamlessly integrates technical excellence with essential soft skills. Our curriculum prepares students not just for careers in high-tech industries but to become empathetic and ethical leaders capable of addressing real-world challenges. The student experience at UTP is bolstered through comprehensive mentorship programmes, career counselling, mental health support, and student development initiatives. We also embed community engagement in our approach by promoting student and faculty participation in volunteer programmes and social impact projects.



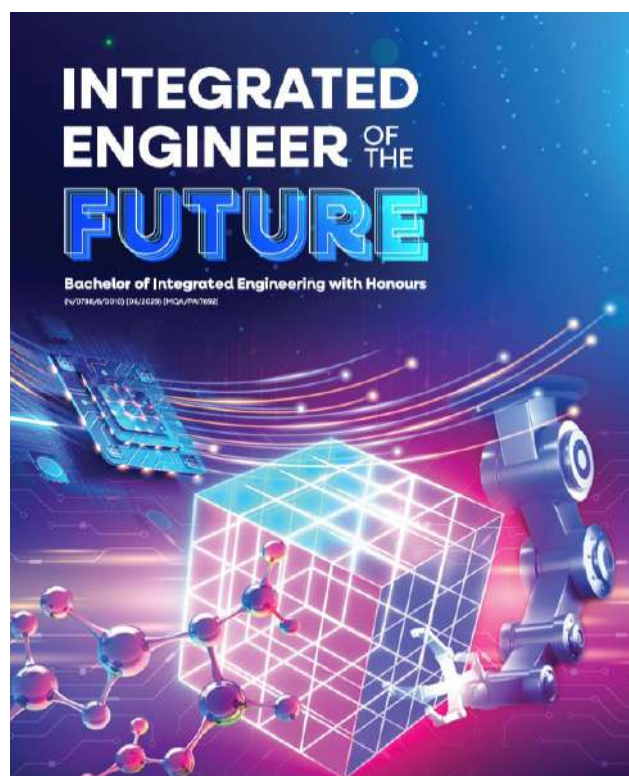
Reimagining Engineering Education

We are set to revolutionise engineering education with the launch of Malaysia's first Bachelor of Integrated Engineering with Honours programme in 2025. This pioneering initiative offers a transdisciplinary approach, integrating core principles from Mechanical, Chemical, and Electrical Engineering. The programme distinguishes itself through early industry exposure from the first year, and a comprehensive seven-month structured internship facilitated through our strong industry partnerships. Student will also benefit from international experience opportunities, preparing them for the global engineering landscape.

The curriculum uniquely blends technical expertise with essential professional competencies, including business acumen, design thinking, agile project management, and data analytics. Students engage in complex problem-solving and innovative thinking through a project-based learning approach. This comprehensive educational experience ensures our graduates are not only technically proficient but versatile leaders ready for dynamic industrial environments.

This innovative approach to engineering education exemplifies UTP's broader commitment to excellence in STEM education, which continues to attract exceptional talent to our university. The sustained interest from prospective students stems from our industry-relevant curriculum, state-of-the-art facilities, and robust industry partnerships. By consistently integrating leadership, communication, and critical thinking skills into our educational framework, we ensure our graduates are well-rounded professionals capable of thriving in dynamic industries.

Furthermore, we cultivate an early interest in STEM education through interactive science camps, workshops, competitions, and hands-on experiences in the subjects. We work closely with schools to enhance STEM teaching methodologies, leveraging digital tools and virtual labs to make learning more engaging for the digital-native generation. These initiatives, combined with career talks and industry showcases, help build a strong pipeline of future innovators ready to drive technological advancement.





The Pulse of Our Community

Our vibrant UTP family is growing, with a diverse student body comprising over 1,000 foundation students, more than 4,000 undergraduates, and over 1,000 postgraduates from more than 50 countries worldwide. International students currently constitute 12% of our population, and we are progressing confidently toward our goal of increasing this to 30% by 2030.

Building on our elevated global rankings and recognition, we continue to expand our international partnerships and attract exceptional talent worldwide, both in terms of students and academia. Through enhanced global engagement strategies and deeper collaborations with world-renowned universities, we are increasing joint research initiatives that drive technological and societal advancements. Our commitment to offering a world-class learning experience is reflected in our cutting-edge academic programmes, industry-driven research opportunities, and dynamic campus environment. With strategic investments in student mobility programmes, international scholarships, and faculty exchange initiatives, we are building a truly global academic community that positions UTP as a preferred destination for the brightest minds in energy and technology.

Our graduates continued to excel across various fields, bringing immense pride to the university. Exemplifying this, Dr Serene Lock Sow Mun, a senior lecturer from our Chemical Engineering Department, was honoured with the ADS Female Engineer of the Year 2024 award at the Asian Downstream Summit. Another notable achievement came from alumnus Abdul Qayyum Halid, who won the Best Creator of the Year at the TikTok Awards 2024, showcasing the diverse talents of our graduates.

Our alumni community remains an integral part of UTP's success story. Collaborating with the UTP Alumni Association, UTP organises various events to foster engagement and networking, including planned reunions, professional development workshops, and industry talks. Our alumni members actively contribute through mentorship programmes, scholarship and funding support, and collaborative initiatives that enrich our academic environment and strengthen our tradition of excellence. In improving our legacy, we value the perspectives and insights of our alumni. Thus, we regularly conduct focus group discussions, alumni forums and feedback surveys to ensure our academic programmes remain aligned with industry needs while upholding the high standards of education that UTP is known for.

Leading the Charge for Sustainable Change

At UTP, we have made substantial strides in our pursuit of environmental stewardship and social responsibility. The 8th World Engineering, Science and Technology Congress (ESTCON 2024) hosted by UTP centred on “Future Positioning through Sustainable Energy, Digitalisation, and Smart Community,” bringing together global experts to explore advancements in energy transition and smart city development. The congress fostered valuable collaborations between academia and industry, leading to partnerships focused on sustainable solutions.

On campus, we have made substantial progress in our University Social Responsibility (USR) initiatives. The launch of our “Bring Your Own Container” campaign has significantly reduced single-use plastics. In support of this initiative, UTP has installed 163 water refill stations across campus, with plans to add another 60 stations in 2025.

Additionally, our comprehensive recycling programme has successfully processed 10 tonnes of waste, equivalent

to 20.16 tonnes of CO₂ equivalent (tCO₂e), while our composting efforts have diverted 1,522 kg of food waste, or 2.9 tCO₂e, from landfills.

All clubs and societies at UTP are required to establish a diverse student membership, ensuring inclusivity across race, nationality, and religion. Every club is open to students from all backgrounds, fostering an environment of openness and acceptance.

To support Malaysia’s multicultural heritage and UTP’s multinational community, the university hosts 13 arts and culture clubs under cluster arts and culture alongside the Association of International Students (AIS), which includes four country-specific branches under student support unit cluster.

UTP also established the UTP ASEAN Student Association to strengthen ties among ASEAN students, aiming to integrate different ASEAN communities into one diverse and united entity.



The Road Ahead

Moving into our next growth phase, UTP envisions becoming a globally recognised leader in technology and energy education and research, emphasising sustainability, interdisciplinary innovation, and global impact. We remain steadfast to our long-term goal of becoming a top university for Engineering & Technology, while achieving profound societal impact through research, education, and community engagement. As a catalyst for innovation, we are committed to driving socio-economic growth through digital transformation and strategic planning. By equipping leaders with insights and tools to navigate digitalisation, and addressing pressing socio-economic challenges through innovative solutions, we aim to foster inclusive development that benefits all segments of society.

Central to our vision is advancing academic excellence through a dynamic, future-proof curriculum. We aim to introduce more interdisciplinary programmes that blend engineering, business, and digital technologies, preparing students for careers that require cross-disciplinary expertise. Additionally, we will enhance experiential learning opportunities through internships, research collaborations, and problem-based learning projects.

Research and innovation will continue to drive our impact, with greater emphasis on translating discoveries into real-world applications that benefit industries, policymakers, and communities. As a thought leader in sustainability and ethical technology adoption, we plan to intensify our role in shaping policies and best practices in emerging areas such as artificial intelligence governance, sustainable energy policies, and climate action strategies.

Ultimately, our future will be anchored by our ability to nurture globally competitive graduates, lead in innovation, and drive meaningful societal contributions. By staying ahead of industry shifts and continuously adapting to technological and societal changes, we aspire to be a top university in rankings and a transformative force that shapes the future of education, industry, and sustainable development.



Finally, I want to extend my sincere gratitude to the Board led by both Datuk Ir Bacho Pilon and Puan Farehana Hanapiah and all of the Board Members for their steadfast leadership amid heightened uncertainties in the education sector. In closing, I would like to thank all our valued stakeholders for your trust and continued support of UTP. The relationships we have forged over the years reflect our long-term commitment to create value and recognise the aspirations of all parties.

**Prof Dato' Ir Ts Dr Mohamed
Ibrahim Abdul Mutalib**
Vice Chancellor

A Geological Journey Through Time: Malaysia's Largest Outdoor Rock Garden

In a remarkable achievement that bridges education, tourism, and geological heritage, UTP officially inaugurated Malaysia's largest outdoor geological rock garden on 15 January 2024. The UTP Geological Rock Garden (GRG), spanning an impressive 44,550 square meters, stands as a testament to the university's commitment to advancing geoscience education and environmental conservation.

The garden's opening, presided over by Perak Menteri Besar Dato' Seri Saarani Mohamad, was complemented by the launch of four geological publications, including Malaysia's first immersive virtual reality books produced by a university:

- UTP Geological Rock Garden: Malaysia's Geological Rock Treasures
- Immersive Reality Book: Earth Fossil Explorer
- Immersive Reality Book: Rocks and Minerals
- Petrographic Atlas of Miocene Carbonates, Central Luconia, Sarawak



These publications serve as comprehensive guides to the geological wonders housed within the garden, enhancing the educational experience for visitors.

At the heart of this innovative space lies a meticulously designed 1.18-kilometre pathway that winds around the UTP lake, connecting five thematic geological sections that span from 540 million years ago to the present day. Visitors traverse through time, gaining insight into the formation of the solar system and Early Earth, the explosion of early life forms in the Paleozoic era, and the reign of dinosaurs during the Mesozoic period.

Within these sections, the garden houses an extensive collection of 27 rock types, encompassing Igneous, Sedimentary, and Metamorphic formations, each carefully arranged chronologically and sourced from various locations across Malaysia. Among its most notable specimens is the “suevite,” a meteorite impact rock from Lenggong Valley, Perak, courtesy of Jabatan Warisan Malaysia in collaboration with Galeri Arkeologi Lenggong Perak. The educational experience is further enhanced by life-sized models of dinosaurs and primitive mammals, bringing Earth’s geological history to vivid life.

Serving as a bridge between academic theory and practical industry application, the garden features a subsea completion unit donated by PETRONAS, offering visitors insight into Malaysia’s oil and gas exploration industry. This integration of industry elements with geological education exemplifies UTP’s commitment to preparing students for real-world challenges while contributing to Malaysia’s economic development.

As one of the prominent destinations for Visit Perak Year 2024, the UTP GRG represents a harmonious blend of academic excellence, tourism appeal, and environmental consciousness. The garden stands alongside UTP’s other architectural marvels - the Chancellor Complex, Information Resource Centre, and An-Nur Mosque - as a symbol of UTP’s dedication to fostering knowledge and enriching Perak’s tourism landscape.





In celebrating Malaysia's rich geological heritage, UTP demonstrates its dedication to fostering public awareness about the crucial role of geoscience in human civilisation's development and its contributions to Malaysia's economy.

Through the GRG, UTP reinforces its commitment to environmental conservation, aligning with its mission toward sustainable futures. The garden welcomes visitors with free admission, offering everyone an opportunity to explore, learn, and connect with Malaysia's geological heritage.

Introducing Malaysia's First Bachelor in Integrated Engineering Programme

In a revolutionary move that signals a new era in engineering education, Universiti Teknologi PETRONAS (UTP) has unveiled Malaysia's first Bachelor of Integrated Engineering with Honours programme. Held in conjunction with the opening ceremony of Times Higher Education (THE) Campus Live Southeast Asia 2024, the launch was presided over by UTP Pro Chancellor and PETRONAS President & Group CEO, YM Tan Sri Tengku Muhammad Taufik Tengku Kamadjaja Aziz, marking a significant milestone in the university's journey toward educational excellence.

This innovative programme, set to commence in September 2025, is a collaborative achievement involving industry leaders and top global academic institutions, with the support of key stakeholders, including the Ministry of Higher Education (MoHE), Malaysian Qualifications Agency (MQA), and Board of Engineers Malaysia (BEM). The curriculum's distinctive approach integrates multiple engineering disciplines while incorporating crucial humanities components, creating a comprehensive educational experience that addresses the evolving demands of the global workforce.

The programme aims to develop human-centred engineers who combine technical prowess with strong ethical foundations. Rather than creating purely technical experts, we are nurturing resilient, ethical leaders who can deliver sustainable solutions for global challenges.





Designed to pioneer a new generation of engineers, the Integrated Engineering programme instils six core professional capabilities: innovation and entrepreneurship, agile pioneering, technology and digital mastery, customer focus, sustainability advocacy, and value-driven systems thinking. Students experience this through an immersive learning environment that includes early industry exposure, a seven-month structured internship, and international opportunities, all supported by our strong industry partnerships.

The launch event was attended by distinguished guests, including UTP Pro Chancellor YBhg Tan Sri Zaharah Ibrahim, Ministry of Higher Education Director General Department of Higher Education YBhg Datuk Prof Dr Azlinda Azman, and other key stakeholders, underlining the programme's significance in Malaysia's educational landscape.



UTP Celebrates 1,367 Graduates at 24th Convocation

UTP honoured 1,367 graduates at its 24th convocation ceremony on 27-28 October, conferring degrees on 1,028 undergraduates, 242 Master of Science, and 97 PhD graduates. This cohort joins UTP's growing alumni network of over 25,000 professionals worldwide. For nearly three decades, UTP has nurtured skilled professionals, driving Malaysia's progress through innovation and holistic education.

Outstanding graduates were recognised, including Muhammad Nur Aiman Haja Maidin (Chancellor Gold Award), Raja Nur Shazatul Aisyah Raja Idris Shah (Chancellor Silver Award), and Ong Wei Ling (Chancellor Bronze Award).

Postgraduate excellence awards went to M. Devendran Manogaran (Best PhD Research), Mochammad Faqih (Best Master's Research), and Stacy Primus Liew (Best Master's Coursework).

Degrees were conferred by UTP Chancellor Tan Sri (Dr) Mohd Hassan Marican and Pro Chancellor Tan Sri Zaharah Ibrahim, with distinguished guests, including PETRONAS Chairman Tan Sri Dato' Seri Mohd Bakke Salleh, in attendance.





Convocation Highlights

Warisan Hijau Trail Completion

In collaboration with Yayasan PETRONAS, UTP marked the completion of the 950-metre Warisan Hijau Trail within its campus. Developed by Forest Research Institute Malaysia (FRIM), the trail, located in a rare freshwater swamp forest, features an eco-friendly boardwalk and informative displays showcasing over 300 species of flora and fauna, promoting environmental awareness.

Malaysia's First Private 5G Campus Network

UTP and PETRONAS Group Technical Solutions (GTS) launched Malaysia's first private 5G campus network, accelerating digital transformation in remote operations, automation, and robotics. The PETRONAS-UTP 5G Innovation Laboratory (PER5ONA) will serve as a live testbed for 5G applications in the oil and gas sector, driving technological advancements.

PETRONAS 50th Anniversary Torch Handover

As part of PETRONAS' 50th-anniversary celebrations, a commemorative torch was presented to Tan Sri (Dr) Mohd Hassan Marican, marking its final destination at UTP.

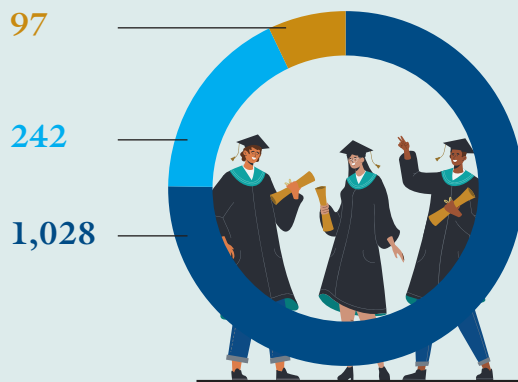




Graduate Statistics

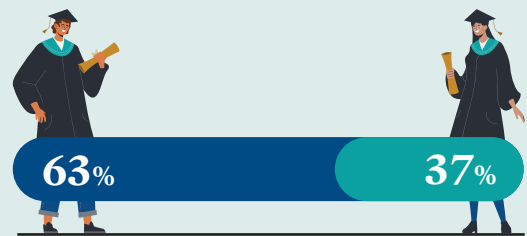
TOTAL GRADUATES

1,367



- Bachelor's Degree
- Master's Degree
- Doctor of Philosophy

GENDER



NATIONALITY



87%
Local
Graduates



13%
International
Graduates



Academic



Prof Ir Dr Hilmi Mukhtar
Deputy Vice Chancellor Academic

As we reflect on 2024, UTP's academic journey has been defined by our relentless pursuit of excellence in sustainable innovation and our growing global recognition.

This commitment has propelled us to new heights, marked by our rise to the 269th position in the QS World University Rankings 2025 and our notable 32nd placement in the THE Young University Rankings 2024. Our dedication to pioneering sustainable solutions while maintaining academic rigour has earned us distinguished recognition in our areas of expertise. Notably, Petroleum Engineering now stands in the 20th spot, while our Mineral and Mining Engineering ranks 41st globally in the QS World University Rankings by Subject 2024. These achievements reflect not just numbers but also our unwavering commitment to providing a world-class education.

Building on these milestones, we continue to improve our learning delivery through advanced blended learning models that leverage AI, learning management systems, and virtual reality technologies. These innovations create interactive and adaptive learning environments that cater to individual learning preferences. Students benefit from greater flexibility through modular course options, skill-based micro-credentials, and AI-powered recommendations that personalise their educational pathways. By incorporating gamified content, immersive virtual laboratories, and project-based learning, we create engaging experiences that resonate with our tech-savvy learners while equipping them with essential lifelong skills such as problem-solving and adaptability.

UTP's continued ascent in global rankings is a direct result of our strategic efforts to strengthen academic programmes and embrace innovation in education. This commitment was further reflected in our role as host of THE Campus Live Southeast Asia in November 2024. The event brought together approximately 400 academic leaders, industry experts, and policymakers, serving as a dynamic platform for regional dialogue on educational challenges, innovation, and collaboration.

It was during this prestigious event that we officially launched our Bachelor of Integrated Engineering with Honours programme, the first of its kind in Malaysia. Recognising the changing landscape of industry demands and evolving student learning preferences, this pioneering programme was developed to cultivate six essential personas in our graduates: Ecosystem Innovator and Entrepreneur, Agile Pioneer, Tech and Digital Champion, Customer-focused Professional, Sustainability Advocate, and Value-driven Systems Thinker. The programme's distinctive structure includes mandatory industry attachment from the first year of study, allowing students to work directly on industry-relevant projects and be exposed to internationalisation.



Our Open and Distance Learning (ODL) programmes have provided working professionals the opportunity to advance their education without disrupting their careers and expanded our global reach. In 2024, we enrolled 236 new students across 13 postgraduate ODL programmes, representing 73% of our total postgraduate intake this year. This reflects notable growth from the 57 students when UTP began offering postgraduate programmes via ODL mode in 2020. The Master of Data Science ODL programme leads with 48 new enrollments, followed by the Master of Business Administration in Energy Management ODL with 39 students, and the Master of Asset Management and Maintenance ODL with 31 students. The global accessibility of our ODL programmes has enhanced UTP's international footprint, attracting postgraduate students from diverse geographical locations who can access our specialised expertise without relocating.

Through our strategic industry partnerships and collaborative initiatives, we have significantly enhanced graduate employability—evidenced by a remarkable 94.1% employment rate among our inaugural Bachelor of Business Management cohort. A landmark collaboration with the Institute of Chartered Accountants in England and Wales (ICAEW) now enables students from diverse disciplines to secure the prestigious Certificate in Finance, Accounting, and Business, thereby opening doors to global career opportunities. In parallel, our partnership with global technology leader FPT has transformed our approach to artificial intelligence (AI) education. By providing hands-on experience with FPT's innovative Total Augmented Data Analytics (TADA) platform, both students and faculty gain invaluable exposure to advanced AI tools and methodologies.

Our dedication to building robust networks and fostering collaboration is further demonstrated through continuous engagement with industry thought leaders and academic innovators. Regular consultations via our annual Industry Advisory Panel (IAP) meetings, complemented by insights from our International External Advisors (IEA), ensure that our curriculum remains aligned with evolving global standards. Initiatives such as our rebranded Engineering Team Project (ETP) and the dynamic Pitching Day not only reinforce real-world problem-solving but also sharpen communication and critical thinking skills. Additionally, the Teaching and Learning Innovation Festival (TLIF) serves as a central hub for sharing best practices and exploring emerging pedagogical approaches.





Our international collaborations also play a pivotal role: a groundbreaking partnership with the Philippines' Commission on Higher Education (CHED) has united UTP with leading Philippine universities to develop academic programmes, bolster research collaborations, and drive staff development—especially in the petroleum and energy sectors. Additionally, the 6th GLU Management Forum 2024 convened key leaders from the Alliance of Government-Linked Universities to explore sustainable, industry-driven innovations in higher education. Collectively, these initiatives ensure our graduates possess the technical expertise, adaptability, creativity, and global perspective necessary to excel in today's competitive job market.



Throughout 2024, we strengthened the integration of engineering, science, and technology with humanities and social sciences across our initiatives. This reflects UTP's broader role—not only as a university grounded in engineering and technology, but also as an advocate for sustainability, ethics, and societal impact. One key example is our organisation of the World Engineering, Science and Technology Congress (ESTCON2024), which underscores our commitment to addressing global challenges through multidisciplinary collaboration. The event showcased research that bridged the gap between technology and real-world issues, covering topics such as sustainable urban development and ethical AI. In parallel, enhancements to our curriculum—including courses in leadership, critical thinking, and global perspectives—ensure our graduates are equipped with both technical expertise and a profound understanding of human and societal dimensions.





Looking ahead to 2025, we remain committed to advancing our position as a leader in higher education through several key priorities. We will continue strengthening our academic excellence, with a particular focus on maintaining our institutional rankings and SETARA rating through continuous programme refinement and alignment with global standards.

Central to our vision is the comprehensive integration of AI across our teaching and learning ecosystem, supported by clear guidelines for pedagogy, curriculum delivery, and assessments. This integration will be ensured through a comprehensive curriculum review, equipping our graduates with the skills needed to thrive in a technology-driven workforce. These initiatives form part of our broader strategy to elevate academic programmes and delivery methods, with emphasis on interdisciplinary learning, adaptability, and innovation.

To support these ambitions, we are enhancing our faculty development through the Enhanced Academic Training Matrix (EATM), providing targeted training and upskilling opportunities. We are also expanding faculty involvement in external networks by encouraging their participation as assessors and committee members in statutory bodies such as the Engineering Accreditation Council (EAC), Malaysia Board of Technologists (MBOT), and Malaysian Qualifications Agency (MQA). These initiatives, combined with our ongoing investment in digital infrastructure and smart learning spaces, will strengthen our academic reputation while fostering external collaborations, ensuring UTP continues to drive innovation and produce graduates equipped to meet global challenges.

Prof Ir Dr Hilmi Mukhtar
Deputy Vice Chancellor Academic

Building Bridges: Malaysia-Philippines Academic Partnership

A groundbreaking partnership between UTP and the Philippines' Commission on Higher Education (CHED) took shape through a strategic workshop in May 2024. The collaboration, which began with initial talks in September 2023, has grown to include leading Philippines universities in engineering and research, including Palawan State University, Western Philippines University, Batangas State University, Kalinga State University, Guimaras State University, Technological University of the Philippines, and University of Southeastern Philippines.

The workshop brought together key figures from both nations, namely UTP Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib, UTP Deputy Vice Chancellor Academic Prof Ir Dr Hilmi Mukhtar, UTP Deputy Vice Chancellor Student Affairs Prof Ir Ts Dr Nor Hisham Hamid, UTP Deputy Vice Chancellor Research, Innovation and Commercialisation Assoc Prof Ts Dr Mohd Fadzil Hassan, UTP faculty, alongside CHED Regional Directors Dr Demetrio P. Anduyan Jr (Cordillera region) and Dr Jimmy Guisdan Catanes (Mimaropa region), and representatives from seven Philippine universities. Together, they crafted concrete plans focusing on academic programmes, staff development, research collaborations, and student initiatives, with special emphasis on petroleum and energy fields.

This milestone meeting sets the stage for a robust consortium between UTP and CHED's partner universities. With a memorandum of understanding in the pipeline, the partnership promises to advance research capabilities, foster academic excellence, and develop future leaders across both Malaysian and Philippine institutions.



The 6th Management Forum of Government-Linked Universities (GLU)

Rethinking Higher Education : A Path Towards Sustainability of GLU

28 May 2024 • Universiti Teknologi PETRONAS



A Meeting of Minds at 6th GLU Management Forum 2024

The sixth annual Management Forum convened in May 2024, bringing together the Alliance of Government-Linked Universities (GLU), comprising Multimedia University (MMU), Universiti Tenaga Nasional (UNITEN), Universiti Kuala Lumpur (UniKL), and Universiti Teknologi PETRONAS (UTP). Under the theme “Rethinking Higher Education: A Path Towards Sustainability of GLU,” the forum highlighted the importance of a sustainable future for GLU universities.

GLU Chairman and MMU President and Chief Executive Officer (CEO), Prof Dato’ Dr Mazliham, officiated the proceedings, followed by an illuminating keynote address from His Highness Tunku Dato’ Seri Zain Al-’Abidin Tuanku Muhriz, Founding President of the Institute for Democracy and Economic Affairs (IDEAS).



The forum featured a thought-provoking panel discussion on university internationalisation, moderated by UniKL's Assoc Prof Aimi Zulhazmi Abdul Rashid, with valuable contributions from Quest International University Vice Chancellor Prof Zita Mohd Fahmi and Albukhary International University Registrar Norpisah Mat Isa.

Two parallel sessions enriched the discourse further. The first explored "Sustaining a Synergistic Collaboration between the Industry and GLUs," featuring Microsoft ASEAN Regional Director of Legal & Government Affairs, Dr Jasmine Begum and ViTrox Corporation Berhad Non-Independent Non-Executive Director, Datuk Ir Dr Ahmad Fadzil Mohamad Hani, moderated by MMU's Ir Prof Hairul Azhar Abdul Rashid. The second session examined "Disrupting the Higher Education Curriculum," with insights from Malaysian Qualifications Agency CEO, Dato' Prof Dr Mohammad Shatar Sabran and TAMCO Consultant and Jishan Berhad Director, Ir Razali Budin, moderated by UNITEN's Dr Jehana Ermy Jamaludin.

The event concluded with remarks from UTP Deputy Vice Chancellor Academic Prof Ir Dr Hilmi Mukhtar, marking another milestone in GLU's journey toward its vision of building globally renowned, industry-driven universities through academic excellence, research innovation, student development, and sustainable governance. Also present were key university leaders, including UNITEN A Deputy Vice Chancellor (Student Affairs and Alumni), Assoc Prof Dr Abdul Aziz Mat Isa and UniKL Deputy President (Academic and Technology), Prof Dr Kushsairy Abdul Kadir.



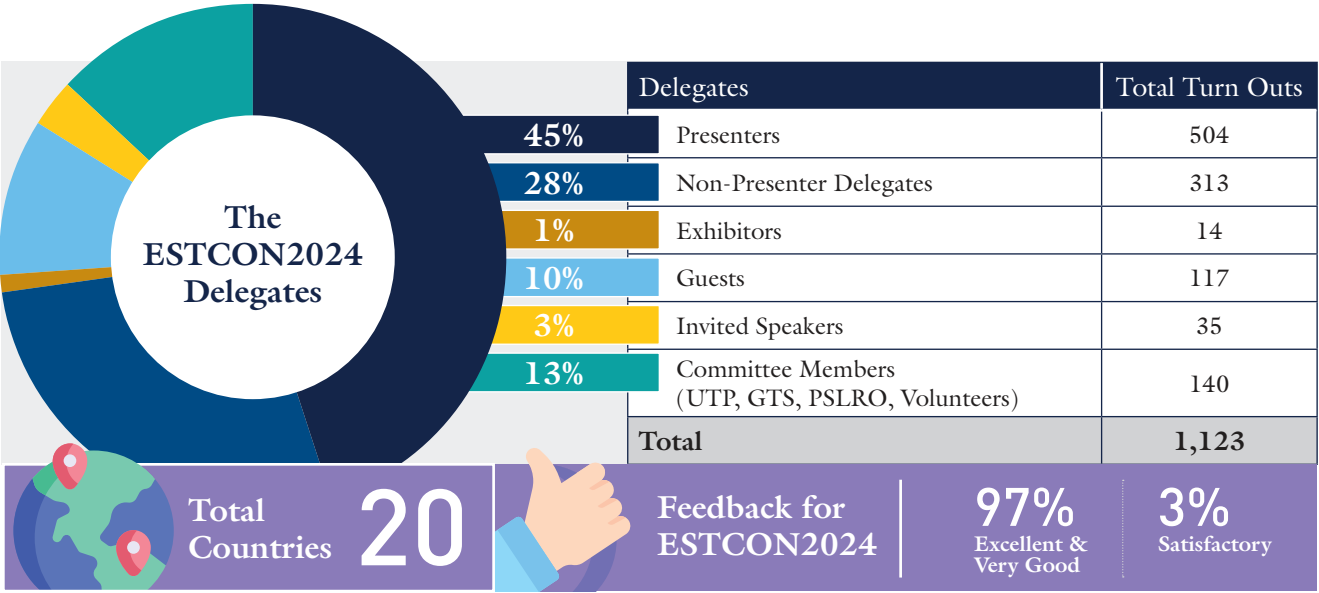


ESTCON2024: Engineering Tomorrow's Solutions

The prestigious World Engineering, Science and Technology Congress (ESTCON) was held at Sabah International Convention Centre, Kota Kinabalu, in September 2024 for its 8th edition. Through a strategic collaboration between UTP and PETRONAS GTS, the congress explored its central theme, “Future Positioning through Sustainable Energy, Digitalisation and Smart Community.” The two-day gathering brought together global experts to tackle the intricacies of energy transition, sustainable living, and emerging trends and challenges across various disciplines in innovation, engineering, technology, and humanities.







Pioneering Open Science and Research Innovation

November 2024 was a momentous moment in the research landscape as UTP launched its Current Research Information System (CRIS). This milestone event, attended by university leadership and representatives from Academy Science Malaysia, Malaysia Open Science Alliance, government agencies and academic partners, showcased UTP's commitment to Open Science and democratising scientific knowledge.

CRIS enhances our digital infrastructure by creating a centralised platform that integrates all of UTP's publications, expert profiles, grants, patents, and research metrics to streamline processes and facilitate collaboration among researchers.

Our embrace of Open Science has yielded a high citation impact, with 13.5% of UTP's publications ranking among the top 10% of most-cited works worldwide (Centre for Science and Technology Studies (CWTS) Leiden Ranking). International collaboration has also flourished, with 86.5% of UTP publications involving international partners. This global recognition has contributed to UTP's impressive rise to the 200-250 band in the THE World University Rankings 2025, where it now stands as Malaysia's top university and ASEAN's top private university.

UTP's Information Resource Centre (IRC) has also implemented effective Search Engine Optimisation (SEO) strategies, managed accessible repositories, and promoted high-impact work efforts that have amplified this success, evidenced by a striking 401% increased views on the UTP Knowledge Hub in 2023.



Research, Innovation & Commercialisation



Assoc Prof Ts Dr Mohd Fadzil Hassan
Deputy Vice Chancellor
Research, Innovation & Commercialisation

The year 2024 marked a strategic evolution in UTP's research landscape with the restructuring of our Research, Innovation and Commercialisation (RIC) division, effective 1st April 2024. This reorganisation aligns with the Twelfth Malaysia Plan (RMK-12) and United Nations Sustainable Development Goals (SDGs), positioning UTP to contribute meaningfully to the nation's journey toward becoming a high-tech, sustainable economy.

The reorganisation saw the consolidation of our research institutes from six to three: the Institute of Smart & Sustainable Living (ISSL), Institute of Emerging Digital Technologies (EDiT), and Institute of Sustainable Energy Resources (ISER). This streamlined structure enhances our capability to address global megatrends while fostering interdisciplinary collaboration. Each institute now oversees two distinct research themes: ISSL focuses on Sustainable Living & Infrastructure Excellence, EDiT drives Intelligent Analytics & Digital Frontier, and ISER leads Renewable Energy & Decarbonisation alongside Subsurface Resources.

The impact of our restructured research focus is evidenced by several notable achievements. In technological innovation, our Ultra-Long Range Acoustic Technology (ORCA), developed collaboratively with PETRONAS, received the Malaysia Product Experience of the Year for Oil & Gas award at the Asian Experience Awards 2024. Our research in the Hollow Fiber Membrane Prediction Programme (HFMPPTM) achieved recognition as a Finalist in the Oil and Gas Category at the IChemE Global Award 2023, while also securing the Research Entrepreneur Award at the Malaysia Commercialisation Year (MCY) Summit 2024. Additionally, Preditack, an IoT-enabled device designed to scan, forecast, and immobilise Golden Apple Snails in paddy fields, garnered five special awards, including the prestigious British Invention Award.

A significant milestone was the launch of the PETRONAS-UTP 5G Innovation Lab (PERSONA), featuring a 5G antenna that serves as a live testbed for accelerating 5G application development in the oil and gas sector. We also established the PETRONAS ASEAN Methane Emissions Technology Evaluation Centre (ASEAN METEC) on 2 October 2024 at PLC Bangi, marking Southeast Asia's first initiative to support regional energy companies with methane research facilities.



Our research capabilities were further strengthened through strategic partnerships. A substantial software sponsorship agreement valued at USD 2.0 million (RM8.9 million) was signed with FPT Software Malaysia Sdn Bhd in November 2024, advancing our research and education in artificial intelligence and data analytics. Besides, a collaboration with Weatherford (Malaysia) provided UTP with an equipment donation worth RM 1.9 million and a three-year Professorial Chair sponsorship of up to RM795,000 for sand control and management research. Our UltraAgro project also achieved international recognition, winning first place at the Falling Walls 2024 and earning the opportunity to represent Malaysia for the finale in Germany.

Throughout the year, our research collaborations yielded significant commercial and technological advancements. The HFMPPTTM demonstrated substantial industry impact, with our client Carigali-PTTEPI Operating Company reporting considerable savings in membrane replacement costs. This innovative software optimises operations to minimise greenhouse gas emissions and product off-specification. Additionally, the software is being used to support membrane research and development at PETRONAS Research Sdn Bhd.

ORCA, a cutting-edge technology that utilises passive acoustic-based detection to monitor corrosion in unpiggable pipelines without operational disruption, has not only gained international recognition but also sparked interest from ARAMCO engineers who visited to assess its capabilities. The commercialisation of ORCA has driven significant enhancements to UTP's research and business ecosystem. The ORCA technical team has been equipped with industry-standard certifications, including confined space entry, Safety Fire Watch, BOSIET, H2S, and OGSP. This expansion into commercial operations has necessitated collaboration across multiple university divisions to establish new frameworks for manpower management, medical insurance, hardship allowances, and project-specific financial structures.



As a prime example of interdisciplinary research, ORCA brings together expertise from electrical engineering, mechanical engineering, physics, and computer science. The team has developed specialised inspection tools and software systems for data analysis and report generation, enhancing our operational capabilities. These achievements have provided valuable insights into commercial partnerships, particularly in areas such as role definition, revenue distribution, and pricing strategies.



Beyond our research achievements, UTP has made significant strides in transforming innovative solutions into market-ready technologies. Our commercialisation efforts have evolved through a comprehensive strategy encompassing marketing, intellectual property (IP) protection, and targeted support for technology development. The launch of the 'UTP Ignite' platform has created a dedicated space for showcasing our research and technologies to internal and external stakeholders. We also initiated the UToPIA accelerator programme to empower researchers and foster entrepreneurial ventures, while aligning with state-level collaborations, such as UTP@State, to broaden regional engagement.

To enhance our commercialisation potential, we have strengthened our IP management through targeted knowledge empowerment initiatives. We implemented comprehensive evaluation rubrics that assess IP suitability based on novelty, marketability, SDG impact, value creation, and inventive steps. This assessment process supports our systematic approach to technology profiling, where innovations are categorised as 'Ready to Commercialise', 'Require Funding', or 'Abandoned.' This structured framework ensures efficient resource allocation and provides focused support for promising innovations as they move from laboratory to market. For technologies deemed market-ready, UTP facilitates licensing opportunities and direct sales opportunities.

Strategic partnerships have been crucial to our commercialisation success. For instance, our collaboration with Universiti Muhammadiyah Surakarta (UMS) has opened new market opportunities in Indonesia. We have also actively participated in national innovation events such as the Putrajaya Festival of IDEAS (PFOI) and Innozilla Competitions, significantly increasing our visibility and engagement with potential investors and industry partners.

On the financial front, we have actively diversified our funding sources to bolster research revenue and enhance financial sustainability. Our IP portfolio has opened new revenue streams through licensing opportunities, with technologies such as the Resilience Assessment System for Mind (RASMi) and the Integrated Suspended Growth Bioreactor System (i-SGBR) being positioned for commercialisation. Moreover, UTP introduced innovative funding mechanisms like IP auctions and rental licensing of lab services and Centre for Advanced and Professional Education (CAPE) modules, leveraging our existing infrastructure and expertise. To maximise these opportunities, we invested in training our researchers in commercial negotiation and market engagement, strengthening their ability to secure funding through collaborative projects and licensing deals.

In line with our commitment to responsible innovation, we continue to embed sustainability principles and ethical considerations throughout our research framework. This integration is achieved through our Technology Research Excellence (TREx) and Technology Exploitation Delivery (TED) frameworks, which work in tandem to ensure our innovations address societal and global challenges sustainably.

Our TREx framework emphasises aligned focus areas, ethical research practices, and sustainability as a core metric of excellence. It promotes interdisciplinary collaboration to tackle global challenges, ensuring our research efforts contribute meaningfully to sustainable development. Complementing this, our TED framework establishes sustainable commercialisation pathways and emphasises community-centric innovation, alongside responsible technology transfer and long-term impact monitoring.

Both frameworks operate under shared principles of scalability, replicability, and global benchmarking, creating a unified approach to sustainable and ethical technology development. This integrated strategy ensures that UTP's research outputs not only advance technological frontiers but also drive environmentally responsible and socially equitable solutions for real-world challenges.

Looking ahead, the RIC division's research strategy is firmly aligned with global megatrends and Malaysia's national aspirations. We are strategically positioning ourselves to explore emerging opportunities in renewable energy, which is projected to grow from USD 1.45 trillion in 2024 to USD 3.14 trillion by 2032, with a compound annual growth rate (CAGR) of 10.1%.

Our focus also extends to Enhanced Oil Recovery (EOR), smart cities development, and digitalisation initiatives, with each sector showing promising growth trajectories and potential for significant impact.

As we work towards our vision of achieving Sustainable Global Prominence for 2025-2030, we have developed comprehensive blue ocean strategies focusing on six key aspects: focused and high-impact research aligned with global challenges; national and regional commercialisation presence; global presence through CAPE; providing top-tier consultancy services; operational excellence; and niche testing facilities.

These strategic directions are carefully aligned with the RMK-12, United Nations' SDGs and PETRONAS agenda, positioning UTP to address pressing challenges such as climate change, energy and water security, sustainable cities, and food security. With these focused efforts, we remain committed to driving innovation that creates meaningful impact for both industry and society.

Assoc Prof Ts Dr Mohd Fadzil Hassan

Deputy Vice Chancellor

Research, Innovation & Commercialisation





UTP's ADaPT Wins at OTC Asia 2024

UTP secured the prestigious Spotlight on New Technology Award in the Small Business Category at the Offshore Technology Conference (OTC) Asia 2024 in Kuala Lumpur. The winning innovation, Advanced Diagnostic and Prognostic Technology (ADaPT), showcases UTP's expertise in real-time structural health monitoring for industrial assets.

Developed through a collaboration between UTP's Mechanical Department and PETRONAS GTS, ADaPT combines mechanics, physics, and artificial intelligence to predict early signs of mechanical damage and forecast remaining life with confidence levels between 94% to 99%. The technology's versatility enables its application across various offshore assets, including drilling rigs, production platforms, subsea infrastructure, and monitoring devices.

The project was spearheaded by Assoc Prof Dr Rahim Othman and Dr Mazian Mohammad from UTP's Mechanical Department and PETRONAS GTS. This recognition at OTC Asia 2024 reinforces UTP's position as a leader in technological innovation and industry-focused research.



Global Recognition at International Exhibition of Inventions Geneva 2024

UTP secured dual honours at the 49th International Exhibition of Inventions Geneva, the world's largest annual event devoted exclusively to inventions and the licensing market. The Advanced Diagnostic and Prognostic Technology - Smart Crack Monitoring Instrument (ADaPT-SCTI), developed by UTP's Assoc Prof Dr Abdul Rahim Othman and Dr Mazian Mohammad

in collaboration with PETRONAS Group Technical Solutions, earned a prestigious Silver Medal and the King Abdulaziz University Special Award for Innovation.

The exhibition, which gathered over 825 exhibitors from 45 countries, provided an exceptional platform for showcasing groundbreaking innovations. As part of the Malaysian delegation that brought home one gold and three silver medals, UTP's achievement highlighted the nation's innovative capabilities. The significance of these technological advances was further recognised through a special visit by H.E. Dato' Nadziah Osman, Malaysia's Ambassador and Permanent Representative to the United Nations in Geneva. The success underscores UTP's growing reputation in developing industry-relevant solutions with global impact.



Research Excellence Recognised at MCY Summit 2024

UTP achieved notable recognition at the Malaysia Commercialisation Year (MCY) Summit 2024, securing the Research Entrepreneur Award for its innovative Hollow Fiber Membrane Prediction Program (HFMPP™). The award, presented by Prime Minister YAB Dato' Seri Anwar Ibrahim at the Kuala Lumpur Convention Centre, came with a grant of RM130,000.

The winning research team, led by Assoc Prof Ir Dr Lau Kok Keong, alongside Dr Serene Lock Sow Mun and Prof Dr Azmi Mohd Shariff, was honoured for their groundbreaking research, development, and commercialisation of the HFMPP™ software.

Patents Granted

Institute of Sustainable Energy & Resources

MAIN INVENTOR	PATENT NAME	CENTRE
Assoc Prof Ir Dr Oh Pei Ching	Method of Preparing a Superhydrophobic PVDF-HFP Membrane	Carbon Capture, Utilization & Storage Centre (CCUSC)
Assoc Prof Ir Dr Lau Kok Keong	Ultrasonic Packed Bed Assembly	
ChM Assoc Prof Dr Maizatul Shima Shaharun	Method of Preparing a Catalyst	
	Catalyst for Conversion	
Assoc Prof Dr Bhajan Lal	Hybrid Reactor for Separation of Carbon Dioxide from Gaseous Stream	
Ts Dr Mohd Hizami Mohd Yusoff	Method of Producing Gasoline from Bio Oil	Centre of Biofuel and Biochemical Research (CBBR)
Ts Dr Noridah Osman	An Improved Fluidized Bed Pyrolysis System for Decomposing Biomass for the Production of Bio-Oil	
	Process for Carrying Out Torrefaction of Biomass Reactor for Carrying Out Torrefaction of Biomass	
Prof Dr Faiz Ahmad	A Fiber Reinforced Epoxy Based Intumescent Coating	Centre of Corrosion Research (CCR)
Prof ChM Dr Cecilia Devi Wilfred	Polymerised Ionic Liquids with Improved Properties and Methods for Enhanced Sorption of Carbon Dioxide	Centre of Research in Ionic Liquid (CORIL)
	Quinlinium Ionic Liquids as Electrolytes for Dye Sensitized Solar Cells (DSSCs)	
Assoc Prof Dr Khaled Abdalla Elraies	Method of Synthesizing Novel Surfactants Formulations as Foaming Agent for Enhanced Oil Recovery Applications at High Salinity and High Temperatures	Centre of Reservoir Dynamics (CORED)

Institute of Smart & Sustainable Living

MAIN INVENTOR	PATENT NAME	CENTRE
Prof Dr Shamsul Rahman Mohamed Kutty	An Integrated Suspended Growth System (I-SGS)	Centre for Urban Resources Sustainability (CURES)
Ts Dr Ho Yeek Chia	A Method for Preparing Coagulant for Water or Wastewater Treatment and Coagulant Prepared Thereby	
Prof Dr Nasir Shafiq	A Solar Cured Engineered Geopolymer Composite	
	Composition of Self Compacting Geo-Polymer Concrete And Method of Producing Thereof	
Prof Ir Dr Hilmi Mukhtar	Amine Mixed Matrix Membrane for Gas Removal and Methods Thereof	
	An Ionic Liquid Mixed Matrix Membrane for CO ₂ /CH ₄ Separation and Method of Synthesis Thereof	
Assoc Prof Dr Balbir Singh Mahinder Singh	Portable Assembly for Solar Water Desalination	Centre of Innovative Nanostructures & Nanodevices (COINN)
Prof Dr Abd Rashid Abd Aziz	An Exhaust Manifold	Centre of Sustainable Resources for Intelligent and Efficient Mobility (CSRIEM)
	System for Controlling Constant Gaseous Mass in a Cylinder Chamber of a Free Linear Generator	
	Free Piston Internal Combustion Engine	
Assoc Prof Ir Dr Masri Baharom	Method of Producing Rotary Movement Using Statorless Pulsating Motor	
Assoc Prof Dr Mohd Haris Md Khir	Lorentz Force Based CMOS Resonant Piezoresistive Magnetic Sensor With Differential Electrostatic Actuation	Smart Infrastructure Modelling & Monitoring (SIMM)
Assoc Prof Ir Dr Hisham Mohamad	Instrumentation System and Method for Landslide Monitoring	
Assoc Prof Ir Dr Bashar S Mohammed	Composition of Nano Silica Modified Rubbercrete	
Assoc Prof Ir Dr Zahiraniza Mustaffa	Smart Flood Alarm Indicator	
	Flood Risk Assessment System and Method Thereof	

Institute of Emerging Digital Technologies

MAIN INVENTOR	PATENT NAME	CENTRE
Dr Lukman AB Rahim	System, Apparatus, and Method for Compressing Data	Centre for Cyber-Physical Systems (C2PS)
	System, Apparatus, and Method for Hiding Secret Data within Cover Data	
	System, Apparatus, and Method for Detecting and Correcting Data Error	
Assoc Prof Dr Nasreen Badruddin	Congestion Avoidance, Detection, and Alleviation Scheme for Routing in Wireless Sensor Networks	Centre for Intelligent Signal & Imaging Research (CISIR)
Prof Dr Tang Tong Boon	Method and System to Detect Brain Function Deficit	
Assoc Prof Dr Vijanth Sagayan Asirvadam	Age-Invariant Face Recognition	
Prof Ts Dr Jafreezal Jaafar	Method for Integrating, Structuring, and Data Sharing of Meteorological and Oceanographic Data (MetaOceanWeb)	Centre for Research in Data Science (CeRDaS)
Assoc Prof Ts Dr Noor Amila Wan Abdullah Zawawi	An Intelligent Vibration Structural Control System	Offshore Engineering & Autonomous Centre (OEAC)

Patents Filed

MAIN INVENTOR	DEPARTMENT/ FACULTY	FILING NAME	CENTRE	INSTITUTE
Dr Madiyah Omar	Chemical Engineering	Dry-Low Emission Gas Turbine Model Simulator for Digital-Twin and Predictive Maintenance	RobotTech Innovation Centre (ROBOTIC)	Institute of Emerging Digital Technologies
Prof Dr Tang Tong Boon	Electrical & Electronics Engineering	Method of assessing mental resilience of subject and system thereof	Centre for Intelligent Signal & Imaging Research (CISIR)	
Assoc Prof Ir Dr Masri Baharom	Mechanical Engineering	Oscillatory to Rotary Motion Converter	Centre of Sustainable Resources for Intelligent and Efficient Mobility (CSRIEM)	Institute of Smart & Sustainable Living

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MAIN INVENTOR	DEPARTMENT/ FACULTY	FILING NAME	CENTRE	INSTITUTE
Ts Dr Ng Cheng Yee	Civil & Environmental Engineering	Real time monitoring of pipeline circumference changes in hydro burst test with motion capture system	Smart Infrastructure Modelling & Monitoring (SIMM)	Institute of Smart & Sustainable Living
Assoc Prof Ir Dr Hisham Mohamad		FIBERBY - Application for DOFS instrumented pile load test data processing		
Assoc Prof Ir Dr Zahiraniza Mustaffa		FIBERBY Algorithm - An algorithm for processing DOFS instrumented pile load test data		
Assoc Prof Ir Dr Zahiraniza Mustaffa		GeoWax Energy Piles: A Novel Geothermal Energy Pile System with Phase Change Material Integration		
Prof ChM Dr Cecilia Devi Wilfred	Chemical Engineering	PVA-Alginate-thiosalicylate as adsorbent for Mn removal from industrial wastewater	Centre of Research in Ionic Liquid (CORIL)	Institute of Sustainable Energy & Resources
		Lignosulfonate Based Ionic Liquid For Asphaltene Dispersant		
Ts Dr Mohd Hizami Mohd Yusoff		Sustainable and Green Microwave Reactor equipped with Solar Power for Biofuel and Fuel Additive Production	Centre of Biofuel and Biochemical Research (CBBR)	
Dr William Pao King Soon	Mechanical Engineering	An Algorithm to Identify Two-Phase Flow Regimes in Opaque Pipes Using Temporal Dynamic Pressure Data	Centre of Flow Assurance (CFA)	
Assoc Prof Dr Mohd Nuri Al-Amin Endut	Management & Humanities	Islamic Affairs Management Index Instrument in Malaysia	Centre of Social Innovation (COSI)	Institute of Smart & Sustainable Living
CMgr FCMI Assoc Prof Dr Ahmad Shahrul Nizam Isha @ Isa		Impact of Mindful Organizing and Collective Psychological Capital on Safety Performance		
		Malay Validation of Copenhagen Psychosocial Work Environment Questionnaire		

Copyright (cont'd)

MAIN INVENTOR	DEPARTMENT/ FACULTY	FILING NAME	CENTRE	INSTITUTE
Dr Madiyah Omar	Chemical Engineering	Dry-Low Emission Gas Turbine Model using First Principal Data-Driven Approach	RobotTech Innovation Centre (ROBOTIC)	Institute of Emerging Digital Technologies
		Support Vector Machine - Bayesian Belief Network Method for Trip Prediction Technique of Dry-Low Emission Gas Turbine		
		Automated Determination of Condensate Color through Physical Property-Based Correlation Software		
Assoc Prof Dr Noreen Izza Arshad	Computer & Information Science	Virtual Reality for Communication Assessment Processes	Positive Computing (+COMP)	
Dr Savita K. Sugathan		Learner's CHECKLIST to Attain Digital Badge in Micro-Credential Courses		

Other Intellectual Property Rights

TYPE	STAFF NAME	DEPARTMENT/ FACULTY	FILING NAME	CENTRE	INSTITUTE
Trademark	Assoc Prof Ir Dr Haslinda Zabiri	Chemical Engineering	ValveStic	Carbon Capture, Utilization & Storage Centre (CCUSC)	Institute of Sustainable Energy & Resources
Industrial Design	Muhammad Noor Amin Zakariah	Geosciences	Innovative Copper Cylinder Design and Method for Enhanced Resistivity Electrodes	Centre for Subsurface Imaging (CSI)	
	Assoc Prof Ir Dr Hisham Mohamad	Civil & Environmental Engineering	Sensor	Smart Infrastructure Modelling & Monitoring (SIMM)	Institute of Smart & Sustainable Living
	Ts Dr Ng Cheng Yee		VentuRotor: Enhancing Efficiency in Hydrokinetic Turbines with an Optimized Venturi Diffuser		
Trade Secret	Prof Ts Dr Shahrina Md Nordin	Management & Humanities	Formulated Adan Arabica Coffee: A Novel Blend of Adan Rice and Roasted Arabica Coffee	Centre of Social Innovation (COSI)	

Licensing and Commercialisation

Through a Master Research Agreement (MRA) with PETRONAS Research Sdn Bhd (PRSB), UTP has licensed Lenfloc, an innovative natural-based biocoagulant that revolutionises water treatment processes and microalgae harvesting for biodiesel production. Developed by the Centre of Urban Resource Sustainability, this breakthrough technology is led by Ts Dr Ho Yeek Chia with co-researchers ChM Ts Dr Lim Jun Wei and Ts Dr Lam Man Kee.

Derived from residual biomass, Lenfloc offers superior advantages over conventional chemical coagulants. The technology eliminates trace aluminium, ferric ions, and carcinogenic acrylamide monomers, which reduces sludge volume, treatment costs and environmental impact. This is due to its unique properties, such as its rapid settling, low dosage requirements, and wide pH range efficiency. In microalgae harvesting applications, Lenfloc enhances biodiesel quality while supporting zero-waste principles through water reuse.

This licensing milestone reinforces UTP's commitment to technology commercialisation and industry partnerships. The development opens new avenues for collaboration and adoption across industries, particularly wastewater management and renewable energy sectors.



Student Affairs

**Prof Ir Ts Dr
Nor Hisham Hamid**
Deputy Vice Chancellor Student Affairs



Looking back on 2024, I feel tremendous pride in how UTP continues to develop tomorrow's leaders and innovators. We strive to transcend conventional academic excellence to nurture graduates who drive meaningful societal change, armed with the capabilities and perspective needed to address worldwide challenges.

This vision has come to life through our three strategic pillars: internationalisation, community building, and entrepreneurial development. Under the internationalisation pillar, UTP strengthened its inbound and outbound mobility programmes, engaging 2,471 students in 2024. Of these, 1,294 were inbound students from partner universities worldwide, while 1,177 outbound students broadened their horizons abroad through the Student Industrial Internship Programme (SIIP), Research Attachment Programme (RAP), Student Exchange Programme (SEP), and Short-Term Programme (STP). These global experiences foster a worldwide mindset in our students, equipping them with cross-cultural competencies and leadership skills essential for success in an interconnected era.

In community building, our “Sit Tight, Speak Right” programme exemplifies the power of cultural exchange. Since its inception in 2019, it has seen 250 UTP students participate, with 200 travelling to Yala Rajabhat University in Thailand. There, they served as both educators and cultural ambassadors, teaching English to non-native speakers and forging international friendships. This initiative has nurtured empathy, leadership, and cross-cultural understanding—qualities that define globally conscious graduates.

Closer to home, our entrepreneurial development efforts flourished through UTP students' collaboration with the Orang Asli community in Kampung Suak Padi. By guiding Orang Asli entrepreneurs in showcasing their products during Convo Fest, students helped generate sales ranging from RM20,000 to RM25,000, demonstrating how hands-on learning can spark economic empowerment and social impact.

These endeavours highlight UTP's commitment to producing graduates who not only excel academically but also champion sustainable development and community well-being.

Building on our three strategic pillars, UTP remains steadfast in its commitment to student empowerment. In the past year, the Student Affairs (SA) team focused on giving students greater autonomy to direct their own growth and development. We complemented this with a strong commitment to experiential learning, recognising that practical, hands-on experiences often yield the most profound educational outcomes.



At the heart of UTP's student development philosophy lies our dedication to nurturing well-rounded individuals, with our CAAIR values—Collegiality, Accountability, Adaptability, Integrity, and Respect—ingrained in their very character. These core values empower our students to confidently and effectively navigate diverse, multi-national environments. In 2024, this commitment was vividly demonstrated through an unprecedented level of student-led initiatives. Our Student Representative Council (SRC) and various student clubs and societies spearheaded over 600 events. By taking the lead in organising these activities, our students gained invaluable practical experience and reinforced their ability to drive change and shape their educational journeys in a rapidly evolving world.

At UTP, our commitment to the student experience is both comprehensive and transformative, ensuring that every facet of campus life contributes to the growth and well-being of our community. Over the past year, we have bolstered our Psychological and Counselling Services (PCS) by reinforcing expert support through a dedicated team of Lembaga Kaunselor Malaysia (LKM) registered counsellors and a psychologist. Moreover, the UTPeers initiative, led by 30 active members, orchestrated 41 impactful activities, while the SPARKZ programme's annual Respect, Appreciate, Manners (RAM) campaign further promoted mental well-being and positive campus culture. These efforts, together with enhanced collaboration with partners such as QUALITAS and NALURI, reflect our unwavering commitment to mental health and emotional resilience.

Our residential villages have also been reimagined as vibrant centres of student life. Under the capable stewardship of the Residential College Student Unit (RCSU) and Village Representatives, these communities have become dynamic hubs where day-to-day operations and spirited campus events coalesce, creating an environment that truly feels like home.

Recognising the importance of spiritual growth, UTP has integrated spiritual development into our student experience through the An-Nur Islamic Centre. Here, the Rakan Masjid group works in tandem with students under the Jobs on Campus (JoC) scheme in Imam and Muazzin roles, fostering spiritual leadership among students. Digital innovations—such as QR codes for mosque donations and venue bookings, digital displays, and live broadcasts of Maghrib talks and Friday sermons—enhance accessibility and engagement, ensuring that spiritual enrichment remains at the forefront of campus life.

The physical campus environment has also seen significant improvements. Redesigned campus cafes now serve as versatile, multipurpose spaces that encourage interaction, collaboration, and creative exchanges outside traditional classroom settings. In parallel, UTP has strategically harnessed technology to streamline and enrich student services. Our new Hostel Management System simplifies administrative processes, while the adoption of digital payment systems eases everyday transactions.

The effectiveness of our student services is guided by three key principles: speed, accuracy, and empathy. While our digital innovations have significantly enhanced the first two aspects, they have also created valuable opportunities for our staff to focus on meaningful personal interactions with students. This additional time allows for deeper engagement with student grievances, suggestions, and ideas, fostering a more empathetic and responsive campus environment.


ULife

Collection of modules that are heavily used by UTPians.


iAttend

Record event attendance for UTP official events.


myAcademic

Academic trend and calculator to project your progress.


eMemo

For student request to organise event.


myOutstanding

Financial outstanding summary.


UTP Shuttle

Shuttle schedule information


Visa & Passport

Showcase visa status.


Panic Button

A quick way to trigger alert to UTP security within campus.


Getting Around UTP

Navigate to favorite spots within UTP.


UTP Digital ID

Digital UTPians identification card


UTP Mental Health

Get connected with your counselors.


UTP Digital Name Card

Digital Business Card


myTimetable

Personalised timetable and student attendance.


Announcement

UTP announcement



Complementing these advancements, we have launched ULife, a user-friendly platform that consolidates a range of student services into one seamless interface, making student affairs more accessible and efficient. Since its launch in March 2023, ULife has supported over 8,300 users with more than 550,000 interactions, becoming an essential tool in the daily campus experience.



Our commitment to graduate success is reflected in UTP's impressive 92% graduate employability rate in 2024. This achievement stems from our proactive approach to industrial engagement and innovative career development initiatives. Locally, we have expanded our regional outreach, partnering with bodies like the Malaysian Investment Development Authority (MIDA) and tapping into previously untapped markets in Brunei and Sarawak, where a recent industrial engagement session in Sarawak alone attracted 45 new companies. The Career Development Office has also hosted HR Dialogues, creating direct channels between students and potential employers.

On the international front, our SA team has orchestrated multiple roundtable discussions with partners in India, Thailand, and the Philippines, bringing together representatives from over 20 companies. These global networking sessions have strengthened collaborations and broadened opportunities for UTP graduates, including potential employment abroad and international internships, while reinforcing our commitment to positioning our graduates on the international stage and showcasing their world-class qualifications.

Moving forward, the SA team contributes to UTP's transformation journey through four strategic initiatives: strengthening diversity and inclusion to prepare students for global citizenship; enhancing AI literacy through competitions and club activities; expanding financial literacy education; and deepening our sustainability efforts by reducing single-use materials in campus activities.

Apart from academics, UTP's distinctive non-conventional credited co-curriculum (Co-Q) programme continues to enrich student experiences through credited activities ranging from fencing to culinary arts and drone flying. These opportunities contribute significantly to character development while allowing students to explore new passions and talents. We remain dedicated to student welfare through our comprehensive support systems, including 11 different financial schemes ensuring no student's journey is hindered by financial constraints. Our initiatives continue promoting UTP's CAAIR values through programmes focusing on ethical IoT technology usage, academic integrity, and sustainable practices.

These efforts are anchored in our Student Experience Framework and shaped by continuous engagement with our evolving student demographics. We aspire to cultivate such a powerful sense of belonging that our graduates remain connected to the university community, eager to contribute to UTP's ongoing development as alumni. This creates a self-sustaining cycle where today's students become tomorrow's mentors and partners, strengthening both UTP and the industries our graduates serve.

Professor Ir Ts Dr Nor Hisham Hamid
Deputy Vice Chancellor Student Affairs



Campus Life

COMMUNITY OUTREACH PROGRAMME

105 NON-CREDITED PROGRAMMES ORGANISED IN 2024

1,948 UNDERGRADUATE STUDENTS PARTICIPATION



5 INTERNATIONAL COMMUNITY OUTREACH PROGRAMMES



Wa No Kizuna: Bonds of Harmony



Sit Tight, Speak Right 3.0



Beyond Borders



TechInsight



Nusa Hijau @ Malang

FIRST YEAR EXPERIENCE (FYE) PROGRAMME

15 PROGRAMMES ORGANISED FOR FYE

1,541 STUDENTS INVOLVED
NEW INTAKE STUDENTS

1051

FOUNDATION STUDENTS

490

UNDERGRADUATES

500 FACILITATORS

Developed among Foundation and Undergraduates students to facilitate the transition of new student intake to university environment



SUSTAINABILITY INITIATIVE

50% REDUCTION IN PRINTING IN ALL STUDENT ACTIVITIES THROUGH CLUBS & SOCIETIES

NO SINGLE-USED PLASTICS UTILISATION

REUSABLE WATER BOTTLES & TIFFIN UTILISED DURING 0-WEEK PROGRAMMES

516 TREES PLANTED

THROUGH 4 PROGRAMMES IN PERAK TO OFFSET CARBON FOOTPRINT



STUDENT CLUBS & SOCIETIES

115

CLUBS & SOCIETIES

491

PROGRAMMES
ORGANISED BY CLUBS & SOCIETIES

RM1.07

MIL

TOTAL SPONSORSHIP
OBTAINED FOR STUDENT ACTIVITIES



STUDENT ACHIEVEMENT

GOLD & GRAND AWARDS

INTERNATIONAL SCIENCE, TECHNOLOGY AND
ENGINEERING COMPETITION 2024 (STEC)

GOLD & SILVER AWARDS

WORLD INVENTION CREATIVITY
OLYMPIC 2024 (WICO)

1ST RUNNER UP BUSINESS CASE COMPETITION

INDONESIA CHEMICAL ENGINEERING
CHALLENGE (ChEC) 2024

2ND PLACE HAFAZAN AL-QURAN TAHAP 1-20 JUZUK

MAJLIS TILAWAH & HAFAZAN
PERINGKAT KEBANGSAAN 2024

DIAMOND AWARD RECIPIENT MOST OUTSTANDING AVENUE OF SERVICES IN:

-COMMUNITY SERVICES AWARDS
-CLUB SERVICES AWARDS
PUBLIC IMAGE AWARDS

ROTARACT CLUB UTP (RACUTP)

CHAMPION DEBAT STATISTIK INSTITUT PENGAJIAN TINGGI 2024

UTP MALAY DEBATE CLUB

Talent Enrichment

STUDENTS ACHIEVEMENTS

BRONZE PRIZE & BEST CHOREOGRAPHY AWARDS

CHEONAN WORLD DANCE FESTIVAL

OVERALL CHAMPION

KEJOHANAN MASISWA ZON UTARA 2024

2 SILVER & 3 BRONZE

KEJOHANAN SUKAN INSTITUSI
PENDIDIKAN TINGGI (SUKIPT) 2024

GOLD AWARD

HUAZHONG INTERNATIONAL MUSIC
COMPETITION

CHAMPION

NATIONAL AEROBIC DANCE CHAMPIONSHIP
2024

1 SILVER & 3 BRONZE

SUKAN MALAYSIA (SUKMA) 2024

TALENT ENRICHMENT PROGRAMME

137

PROGRAMMES
CONDUCTED

4,720

STUDENTS INVOLVED
IN SPORTS, ARTS
AND CULTURE
PROGRAMMES

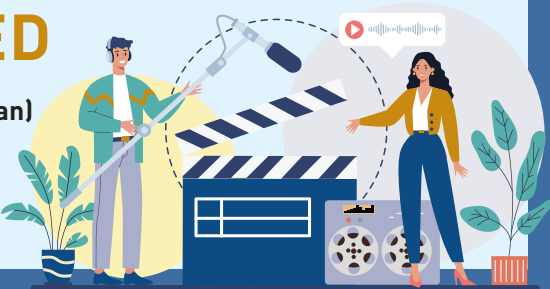
RM427_K

TOTAL AMOUNT OF SPONSORSHIP FOR
TALENT ENRICHMENT PROGRAMMES

2 ALBUMS
PRODUCED

Sanggar Kirana (Gamelan)

- Gatra Ketiga
- Tala Perunggu



CREDITED CO-CURRICULUM PROGRAMME

40

40 NEW COURSES
INTRODUCED



Leadership & Communication

1. Event Management
2. Effective influencer
3. Safety & Risk Management
4. Territorial Army 101
5. Global Citizen
6. Wellbeing & Resilience
7. Content Creator
8. Speaking Out Loud
9. The Press
10. Groom-me

Arts & Culture

1. Traditional Music
2. Let's Dance
3. Malaysian Craft
4. The Voice (Vocal)
5. Doodie Arts
6. Calligraphy
7. String Emsemble
8. Creative Writing
9. Culinary Arts
10. Theatre

Creativity, Innovation & Entrepreneurship

1. Snap A Shot!
2. Creative Animation
3. Interior Design
4. 3D Prototyping
5. Drone Piloting
6. The Inventors
7. Digital - Preneur
8. E - Marketing
9. Fintech
10. Investment

Sports & Recreation

1. Scuba Diving
2. Outdoor Recreation
3. Fencing
4. Shooting
5. Golf
6. Aerobic Dance
7. Mixed Martial Arts
8. Sports First Aider
9. Sports Management
10. Wall Climbing

Student Mobility

PARTICIPATIONS

INTERNSHIP ABROAD

53 PHYSICAL IN 15 COUNTRIES

INBOUND

86 65 PHYSICAL
21 VIRTUAL

OUTBOUND

3 PHYSICAL

INBOUND

169 77 PHYSICAL
92 VIRTUAL

OUTBOUND

159 71 PHYSICAL
88 VIRTUAL

INBOUND

1,039
379 PHYSICAL
660 VIRTUAL

OUTBOUND

962
892 PHYSICAL
70 VIRTUAL

- SIIP (STUDENT INDUSTRIAL INTERNSHIP PROGRAMME)
- RAP (RESEARCH ATTACHMENT PROGRAMME)
- SEP (STUDENT EXCHANGE PROGRAMME)
- STP (SHORT-TERM PROGRAMME)

TOTAL

INBOUND

1,294 STUDENTS

OUTBOUND

1,177 STUDENTS

2,471

STUDENTS INVOLVED IN 2024

STUDENT MOBILITY PROGRAMME

TOP 5 COUNTRIES INBOUND PROGRAMME

LONG TERM

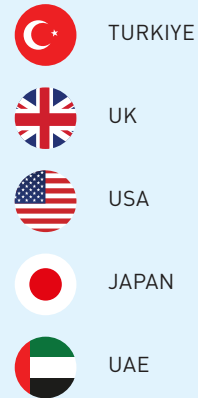


SHORT TERM



TOP 5 COUNTRIES OUTBOUND PROGRAMME

LONG TERM



SHORT TERM



Technopreneurship

TECHNOPRENEURSHIP DEVELOPMENT PROGRAMMES

3,837 STUDENTS'
INVOLVEMENT

71 Developmental Programmes
ORGANISED FOR CREATIVITY, INNOVATION
& ENTREPRENEURSHIP (CIE)

TECHNO SIGNATURE PROGRAMMES



- SEMBANG GARAGE
- KICKSTART MY STARTUP
- START ME UP
- HARI KANTIN
- POP UP NIGHT MARKET
- FABMAKERS WORKSHOP

19 BAZAAR PROGRAMMES
SUCCESSFULLY CONDUCT IN 2024,
GENERATING > RM100K SALES

TECHNOPRENEURSHIP DEVELOPMENT PROGRAMMES

15^{PROG}
EXPLORE
AWARENESS &
ENTREPRENEURIAL
MINDSET ACTIVATION

23^{PROG}
EQUIP
IDEATION, PRODUCT
& BIZ DEV.

25^{PROG}
ENGAGE
PRACTICAL
APPLICATION

10^{PROG}
EXCEL
ADVOCACY &
BUSINESS GROWTH

STUDENTS ACHIEVEMENTS

NATIONAL CHAMPION

PROTON BUSINESS CASE STUDY
CHALLENGE 2024

NATIONAL CHAMPION

MATERIALISE 3D PRINTING
CHALLENGE

CHAMPION IN AGRINXT (STUDENT CATEGORY)

AGROWMONEY (CARBON CREDIT
PLATFORM)

FINALISTS

2 UTP STARTUPS SELECTED IN
PETRONAS INNOVATION GARAGE
(PING)

TOP 20 NATIONAL FINALIST

AGROWMONEY IN MYNEXT
INNOVATE PROGRAMME BY
TALENTCORP

STARTUP DEVELOPMENT

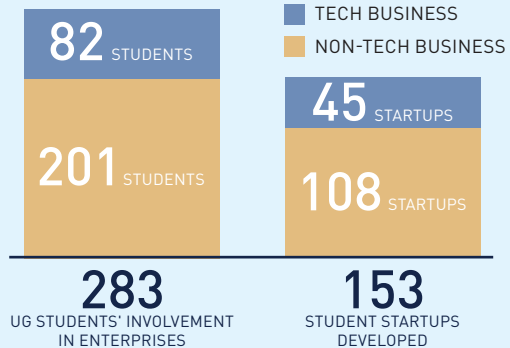
5.1%
UG STUDENTS' INVOLVEMENT
IN ENTERPRISE FOR 2024

STARTUP FOUNDERS

75% **25%**
HIGHER THAN THE
NATIONAL AVERAGE FEMALE
INVOLVEMENT (NATIONAL
AVERAGE = 20%)

TYPE OF BUSINESS REGISTRATION

78% **17%** **5%**
SALES PROP PARTNERSHIP SDN BHD



TOP 5 TECH STARTUPS

1. Product (IT Hardware / Software)
2. Service (AR / VR Design)
3. Service (Logistics)
4. Service (Photography / Videography / Design Studio)
5. Service (Education)



TOP 5 NON -TECH STARTUPS

1. Product (F&B)
2. Product (Apparel Fashion)
3. Product (Beauty / Wellness)
4. Product (Merchandise)
5. Product (Logistics)

Career Development

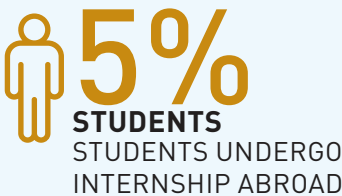
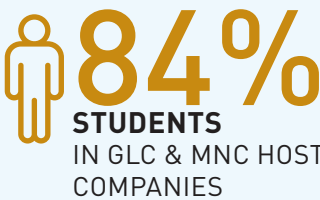
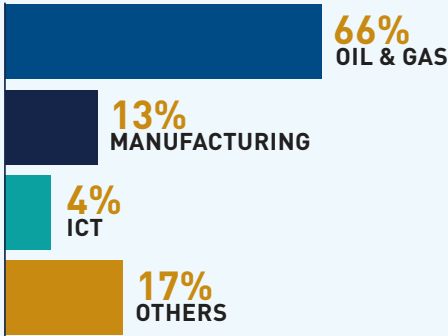
STUDENT INDUSTRIAL INTERNSHIP PROGRAMME (SIIP)

STUDENTS UNDERGOING SIIP



TOTAL: 1112 STUDENTS

INDUSTRY SECTOR



TOP 3 HOST COMPANIES (LOCAL)



TOP 3 HOST COMPANIES (INTERNATIONAL)



92%

UTP GRADUATES
EMPLOYED

1,068

STUDENTS
GRADUATED IN
2024

75%

GRADUATE
WORK IN RELATED
FIELD OF STUDY

73%

GRADUATES WORK
IN GLC AND MNC
COMPANIES

24%

WORK AT THE
SAME INTERNSHIP
COMPANY

57%

GRADUATE EARNING
ABOVE NATIONAL
AVERAGE SALARY
(RM3K)

3%

GRADUATES
WORKING ABROAD

17%

EMPLOYED BEFORE
COMPLETION OF
STUDIES

MACC Chief Commissioner's Cup 2024: Uplifting Integrity Through Debate

The MACC Chief Commissioner's Cup 2024 Anti-Corruption Debate Competition for Higher Education Institutions was recently held at Universiti Teknologi PETRONAS (UTP) in collaboration with the Malaysian Universities Debating Council (MADUM), Dewan Bahasa dan Pustaka (DBP), and the Anti-Corruption Student Force (AMAR). The three-day competition featured preliminary rounds, quarterfinals, semi-finals, and the grand final, which was broadcast live on Astro AWANI and UTP's social media platforms.

Malaysian Anti-Corruption Commission (MACC) Chief Commissioner Tan Sri Dato' Sri Haji Azam Baki officiated the event and presented prizes to the winners. In his speech, UTP Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib highlighted UTP's commitment to instilling integrity in students, emphasising that the debate platform hones critical thinking skills and encourages discussions on corruption and ethics.

The competition, conducted entirely in Malay using the Asian Parliamentary Debate format, saw teams debating key anti-corruption motions before a panel of 60 expert judges.

Universiti Kebangsaan Malaysia (UKM) emerged as the champion, securing RM14,000 in cash, trophies, DBP books, and certificates of achievement. Their opposition stance on the motion "This House Refutes the Involvement of Relatives or Allies for State Assemblymen, Members of Parliament, and Administrative Members in Government Tenders and Projects" led them to victory. Hafiz Hafizi Norependi, a UKM debater, was named Best Debater, winning RM2,000 and a certificate of achievement. Universiti Malaya (UM) finished as the runner-up, earning RM8,000, trophies, books, and certificates.

Also in attendance were International Islamic University Malaysia (IIUM) Deputy Rector and MADUM Deputy Chairman Prof Dr Akmal Khuzairi Abdul Rahman, DBP Director General Dr Hazami Jahari, and MACC Community Education Division Director TPj Nazli Rasyid Sulong.





UTP's TEC24 Career Fair Brings Over 60 Leading Industries Together

UTP recently hosted the Technology, Education & Career (TEC) 2024 fair, bringing together over 60 leading companies from various industries.

Officiated by Higher Education Deputy Minister Datuk Ts Mustapha Sakmud, the event featured top employers, including PETRONAS, ExxonMobil, SLB, Deloitte, and Huawei. Also present were Higher Education Director General Datuk Prof Dr Azlinda Azman and UTP Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib.

Organised entirely by students, TEC24, themed “Unveiling Hidden Talents”, provided a unique platform for students and professionals to explore career opportunities, gain industry insights, and connect with potential employers.

The event featured resume clinics, mock interviews, LinkedIn workshops, and engaging talks and panel discussions to help attendees refine their career goals. TEC24 reaffirms UTP's commitment to bridging academia and industry, nurturing global talent, and enhancing students' professional prospects.







MUHAMMAD HAKIM BIN RUSLI
(PELAJAR TAHUN 2, KEJURUTERAAN KIMIA)

JOHAN
HAFAZAN AL-QURAN
KATEGORI 1-20 JUZUK (Lelaki)

dalam

MAJLIS TILAWAH & HAFAZAN AL-QURAN
NEGERI PERAK DARUL RIDZUAN
1445H/2024M

 An-Nur Islamic Centre, UTP  annurislamiccentre  An-Nur Islamic Centre (NIC) UTP





NUR SHUHADA BINTI SHAHARRUDY
(PELAJAR TAHUN 1, KIMIA GUNAAN)

JOHAN
HAFAZAN AL-QURAN KATEGORI 1-20
JUZUK (Perempuan)

dalam

MAJLIS TILAWAH & HAFAZAN AL-QURAN
NEGERI SEMBILAN DARUL KHUSUS
1445H/2024M

 An-Nur Islamic Centre, UTP  annurislamiccentre  An-Nur Islamic Centre (NIC) UTP



Aaron Iman Kennedy
Bronze Medal in the Downhill Mountain Bike (MTB) Individual event at the 21st SUKMA



Neshwign Chandrasehgaran and Aunaath Nair Pathmanathan
1st runner-up spot in the Business Case Category at the Indonesia Chemical Engineering Challenge (IChec) 2024



Emeraazwa Emeraldi
Gold Medal at the 2024 World Championship of Performing Arts (WCOPA)



Champion at the World Invention Creativity Olympic 2024 (WICO)

Muhammad Nur Aiman Haja Maidin earned the Gold Award for his groundbreaking project on the Automatic Computer-Aided Detection of Major Depressive Disorder (MDD) and Alcohol Use Disorder (AUD) using EEG recordings.

Hairul Nizam Hatta received the Silver Award for his innovative Intelligent Mobile Robot with Multi-sensor Gas Leakage Detection.



Ahmad Firdaus Mohd Rosol Khudus (Business Management) :
 Champion & Top 10 Best Individual Performer
Lim Mei Zhen (Civil Engineering) :
 2nd Runner Up & Top 10 Best Individual Performer
Khor Gee Pei (Electrical and Electronics Engineering) :
 Top 5 Achiever

Champions of the Huawei Malaysia Sale Elite Challenge 2024



Muhammad Nur Aiman Haja Maidin
 Gold Award in the College Category at the International Science
 Technology and Engineering Competition (ISTEC)



Ahmad Luqman Fazli (Mechanical Engineering)
Harris Haziq Hasbullah (Mechanical Engineering)
Muhammad Abdullah (Mechanical Engineering)
Leviin Rreddy Sreeramamurthy (Petroleum Engineering)
Amalin Liyana Mohd Izni Zuhdi (Computer Science)
Nik Emil Hisham Nik Ahmad Hisham (Computer Science)

Advisor: M Zamri Abdullah
 Manager, Technopreneurship Office

Champion of the AgriNXT 2023 Competition



Students from Electrical and Electronics Engineering:

Volintine Ander Jiloh Jr.
Zechariah Hwong
Eddry Haqimy Yusri
McLaren Maja Franklin.

Advisor: Assoc Prof Ir Dr Idris Ismail

Finalist of the ExxonMobil DataWorks Challenge 2024



Wong Wei Xi and Goi Xue Yang
Computer and Information Sciences Department
Champions of Microsoft Excel
(Microsoft 365 Apps) at the Microsoft Office
Specialist National Championship



Hannah Irdina
Champion in the Recurve Women Open category at The
Classic Teluk Intan Open 2024 Championship



Champions of the ESG
Global Young Leaders Summit 2024

Celebrating Students' Talents & Achievements

The UTP Performing Arts Group, representing Malaysia, won the Bronze medal at the Cheonan World Dance Festival in South Korea, successfully competing against participants from 28 other nations.



The UTP Futsal Team secured a fourth-place finish in the IPT Premier League, successfully qualifying for the prestigious IPT Super League.



Celebrating Students' Talents & Achievements

UTP Griffins e-sports club successfully earned a Gold Medal at the national level and has represented Malaysia at the Campus Legends: Mobile Legends Tournament 2024 in Singapore.



Empowering Communities, Driving Change





Education



ConocoPhillips STEMXplore: Nurturing Young Minds

The ConocoPhillips STEMXplore Programme, an educational initiative designed to enhance STEM education in Malaysian secondary schools is a strategic collaboration which focuses on nurturing student interest and capabilities in science, technology, engineering, and mathematics through hands-on experiential learning.

The programme reached 12 selected schools across the Klang Valley and Sabah regions, primarily serving underprivileged students from low-income families. Through a comprehensive four-module curriculum incorporating both physical and virtual learning experiences, students engaged with real-world applications of STEM concepts, including weather systems, ocean mapping, and innovative design challenges.

A distinctive feature of STEMXplore is its dual-impact approach, which benefits students and empowers teachers as trainers, creating a sustainable model for STEM education. The programme aligns with Malaysia's national education policy and school syllabus, while providing participating schools with permanent access to advanced learning tools and resources.





Enlightening Primary Students through STEM Learning

In February, UTP conducted a transformative STEM education programme for Orang Asli students at SK Menzon Cameron Highlands, funded by the Pahang Government under the initiative of Dasar dan Pelan Tindakan Wanita Pahang. Dato Seri Maznah Mazlan, Deputy Chair of Dasar dan Pelan Tindakan Wanita Pahang, officiated the closing ceremony, underscoring the state's commitment to STEM education in rural communities.

The programme engaged 100 Level 2 primary school students in hands-on STEM activities facilitated by nine UTP student volunteers. The half-day session introduced students to cutting-edge technologies, including robotics, the Internet of Things (IoT), and artificial intelligence, demonstrating their real-world applications. Students participated in practical activities using specialised STEM kits provided by Exploria, a Pahang-based educational company.

The session received enthusiastic feedback from both the school and the Cameron Highlands District Education Office (PPD Cameron Highlands), leading to requests for similar programmes in other rural schools.





Supporting Young Voices for Environmental Change

As part of ESTREAM WAVES 2023, we collaborated with SMK Toh Indera Wangsa Ahmad (TIWA) in Batu Gajah to conduct the ‘Read, Write, Protect!’ writing workshop under their Highly Immersive Programme (HIP). The initiative, sponsored by Pertubuhan Rakan Komuniti Pendidikan Perak (PRKPP) and supported by the UTP Journalism Club, empowered Form 4 and Form 5 students to explore environmental protection through creative writing.

The workshop focused on developing students’ ability to research, analyse, and articulate environmental issues affecting their communities. Selected student essays were featured on the UTP Journalism Club’s WordPress platform, providing young writers with a public forum to share their environmental perspectives and proposed solutions. This programme successfully combined environmental education with practical writing skills, nurturing the next generation of environmental communicators.

Engaging Orang Asli Youths Across Perak

In response to an invitation from the Department of Orang Asli Development (JAKOA) for Perak Tengah and Hilir Perak, we conducted a series of motivational programmes for primary and secondary school Orang Asli students across the region. The initiative combines engaging STEM Treasure Hunts with educational seminars designed to spark interest in science and learning among Orang Asli youth.

The program was conducted across three sessions, engaging students through interactive STEM activities and hands-on learning experiences. This collaboration with JAKOA demonstrates UTP's ongoing commitment to expanding educational opportunities in Orang Asli communities.



A Journey of STEM Exploration

Building on our successful MPU4 collaboration, UTP and PETRONAS Refinery and Petrochemical Corporation Sdn Bhd (PRPC) hosted STEM Synergy @ UTP, featuring three interactive workshops and a treasure hunt. The programme engaged 36 students and teachers from SMK Pengerang Utama, along with representatives from the Kota Tinggi District Education Office, PRPC, and Pengerang Terminals Two (2) Sdn Bhd.

Students participated in workshops covering force and pressure, AI and remote technology, and presentation skills, led by expert facilitators Dr Hayyiratul Fatimah, Ts Faizal Ahmad Fadzil, and Dr Chong Su Li. The event concluded with an engaging treasure hunt organised by Dr Rohani Salleh and the Business Management Student Society (BMSS), demonstrating our commitment to making STEM education both educational and enjoyable.





Opening Doors to Discovery on Laboratory Open Day 2024

UTP's inaugural Laboratory Open Day, organised by the Laboratory Management Department (LMG) and Science, Technology and Engineering Laboratory Student's Club (STELab), welcomed nearly 200 participants to explore our state-of-the-art laboratory facilities. The event, officiated by Chief Support Services Officer Mr Muhammad Syazwan Amarjit Abdullah, drew 90 students and 10 teachers from secondary schools across Perak Tengah and South Kinta Districts, alongside 80 UTP staff and students.



The day began with enlightening talks on STEM Education and Sustainability, Digital Information Literacy, and an introduction to UTP. Participants then engaged in interactive tours and demonstrations across 10 specialised laboratories, guided by expert staff from LMG and Digital Innovation & Technology (DigIT). Secondary school students earned Pentaksiran Aktiviti Jasmani, Sukan dan Kokurikulum (PAJSK) merit points while gaining practical insights into higher education opportunities at UTP.



Enhancing Science & Engineering Laboratory Skills & Safety

UTP's Laboratory Management Department (LMG) hosted 52 secondary school laboratory assistants from Perak, Penang, and Kedah in a comprehensive laboratory education programme in August. The event was graced by UTP Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and JPN Perak Director Ybhg Dato' Mohamad Fauzi Mahson, who strengthened regional educational partnerships.

Participants engaged in extensive sessions on laboratory good practices, practical experiments in physics, chemistry, and electronics, and waste management protocols. Led by LMG Director Ir Mohd Fatimie Irzaq Khamis and industry experts, the program fostered skill enhancement and knowledge transfer. Building on positive feedback from a similar programme in 2023, this expanded initiative demonstrated UTP's commitment to advancing laboratory education excellence across Northern Malaysia.





Preserving Indigenous Language and Culture in Sarawak

The Knowledge Transfer Programme (KTP) has successfully established a vital cultural centre dedicated to preserving and transmitting the Indigenous Kayan language, traditions, and identity in Sarawak. This collaborative initiative brings together multiple stakeholders, including Doh Kayan Telang Usan (DKTU), Sarawak Museum, Resident Office Miri Division, Registrar of Companies, and Borneo Cultural Club UTP.

Through a comprehensive five-day workshop, this programme addresses the urgent need to safeguard endangered Indigenous cultural expressions. The initiative focuses on three core cultural elements: Kayan language instruction that enables appreciation of oral traditions, cultural classes featuring nyivan doh (traditional dance), and tekna (storytelling songs), culminating in competitions that showcase these preserved art forms.

Workshop participants engaged with experts through a series of enlightening talks covering "Kayan of Sarawak," "Tekna" (presented by Sarawak Museum representatives), and "Kayan Oral Tradition." The hands-on sessions taught basic Kayan language used in tekna, with participants learning foundational words, phrases, and simple sentences. Beyond language acquisition, the workshop explored the profound connections between culture, language, and identity. Participants gained a deeper understanding of how language serves as both a repository of cultural knowledge and a cornerstone of community identity.

Socioeconomic

Towards a Cleaner, Healthier Royal Belum Community

UTP launched a comprehensive waste management and hygiene awareness initiative with the Royal Belum Orang Asli Community, focusing on sustainable development and community empowerment. This four-stage programme combined rigorous needs analysis with culturally sensitive education and implementation strategies.

Working closely with local leaders, UTP Civil Engineering Students' Society students, and the Perbadanan Kemajuan Negeri Perak (PKNP) team, we conducted detailed assessments using both quantitative surveys and qualitative methods, including

site observations, interviews, and focus group discussions. Based on these findings, we developed and implemented a customised educational programme that is culturally relevant while promoting modern waste management solutions.

Through continuous monitoring and feedback mechanisms, the project emphasised community ownership and long-term sustainability. Our approach integrated local knowledge with contemporary waste management practices, creating a model for sustainable development that preserves both environmental and cultural heritage.



Empowering Indigenous Communities in Sarawak

UTP launched the “Towards Uplifting Lives Programme” (TULiP), a grassroots social innovation initiative aimed at enhancing the socioeconomic well-being of Orang Asli communities in Lawas, Sarawak.

Led by UTP’s Centre of Social Innovation (CoSI) under the Institute of Self-Sustainable Building (ISB), TULiP is jointly funded by PETRONAS, Yayasan Hasanah, and UTP’s University Social Responsibility (USR). The initiative collaborates with MARDI and PEDULI INSAN, focusing on skills training, employability, and entrepreneurship to drive sustainable income growth.

According to Prof Ts Dr Shahrina Md Nordin, UTP ISB Director and TULiP Leader, the programme reflects UTP’s commitment to community empowerment. TULiP provides end-to-end support, from value co-creation, business planning, and production house development to branding, marketing, and sales.

One of its key successes is LINAWA, a brand created by the Lun Bawang tribe, featuring locally produced Adan rice and Arabica coffee, now available on Shopee and LINAWA’s website.

TULiP has already transformed lives along PETRONAS’ Sabah-Sarawak Gas Pipeline, benefiting villages from Kampung Long Sukang to Long Luping. The Koperasi Usahasama Long Sukang now oversees production and business operations, ensuring long-term sustainability.



Strategic Partnership with MARDI:

Developed an Arabica coffee blend with black Adan rice, tested in MARDI labs and validated for high antioxidant content and rich flavour.



Economic Impact:

Local farmers producing Arabica coffee and Adan rice (black, red, and white varieties) have seen a 20% income increase.



Women’s Empowerment:

Programme chaired by Jenny Alau, a female indigenous leader, promoting inclusive development.



Sustainability & SDGs:

Aligns with multiple UN Sustainable Development Goals (SDGs), including poverty reduction, quality education, gender equality, and economic growth.



Environment

Inspiring Futures with ESSA2024

The Environmental Sustainability and STEM Awareness Initiative (ESSA2024) was conducted at SK Kampung Senta, Bidor, combining practical sustainability solutions with engaging STEM education. The ESSA team, together with UTP's Science, Technology and Engineering Laboratory Student's Club (STELab), supervised by Ts Dr Noridah Osman, aimed to enhance the awareness of primary-level Orang Asli students at SK Kampung Senta in environmental sustainability and STEM education.

In doing so, the team developed customised STEM programmes for young students while extending lifelong opportunities to adult learners via the "Sekolah Dewasa" programme. As part of the project, the team also implemented solar-powered lighting infrastructure at the school while fostering STEM awareness through hands-on learning activities. The solar lighting installation served a dual purpose - providing sustainable energy for the school while creating real-world learning opportunities about renewable energy and environmental conservation.

The project's success was driven by the concerted efforts of UTP's Laboratory Management Department (LMG), which provided crucial technical expertise and resources for the solar installation, while the project team and STELab members coordinated STEM and sustainability activities. Additional support came from key partners, including Batang Padang District Education Office, Perak State Education Department, and Jabatan Kemajuan Orang Asli Daerah Batang Padang, ensuring comprehensive implementation of the initiative.





Bolstering Nature's Defense for Mangrove Conservation

Pantai Tanjung Kepah has suffered severe coastal erosion, devastating its mangrove ecosystems and increasing vulnerability to storm damage. To address this environmental challenge, UTP engineers designed innovative permeable bamboo wave screens—a nature-based solution that helps restore natural sediment flow and creates favourable conditions for mangrove regeneration.

The project began with meaningful community collaboration, gathering tree branches from surrounding areas as filling materials for the bamboo structures. Following installation, local residents received specialised training to monitor the barriers' effectiveness and maintain them independently, creating a sustainable management system that will continue long after initial implementation.

This initiative strengthens partnerships between the university and coastal communities while empowering residents with valuable environmental stewardship skills. The bamboo barriers support United Nations SDGs 9 (Industry, Innovation and Infrastructure), 13 (Climate Action), and 15 (Life on Land), demonstrating UTP's commitment to developing practical solutions for pressing ecological challenges through community engagement.

Community-Led Mangrove Restoration in Tanjung Kepah

The Tanjung Kepah Mangrove Action Project (TKMAP) addresses severe coastal erosion that has devastated approximately 2 km of critical mangrove ecosystems from Kampung Tanjung Kepah to Kampung Sungai Tiram. This environmental degradation has significantly impacted the area, once famous for its large mussel ("kepah") production and undermined the socioeconomic well-being of local communities. In partnership with Wetlands International, this initiative focuses on restoring the damaged mangrove belt, particularly in the Pusat Riadah Laut Tanjung Kepah area.

More than 70 participants joined this community-based conservation effort. The programme began with opening remarks from representatives of the Perak Forestry Department and the Special Officer to the Chief Minister of Perak, followed by a presentation on TKMAP's progress to community members. Environmental knowledge assessments were conducted through various engaging activities. The highlight was the planting of 350 mangrove seedlings, led by a non-governmental organisation, Persatuan Sahabat Hutan Bakau Lekir. The programme concluded with the distribution of food aid baskets to participating community members.



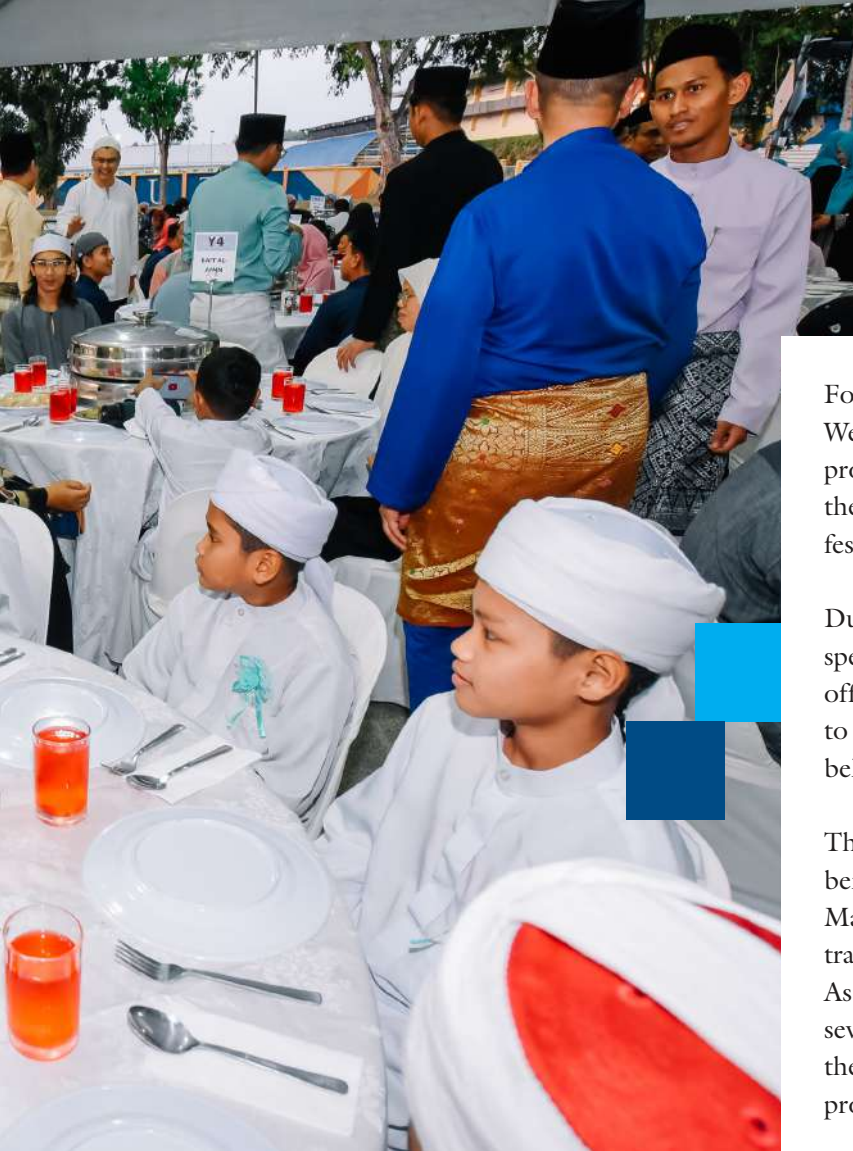
Uplifting Lives Festive

Connecting Communities with Seasons of Giving

UTP and Yayasan PETRONAS continue to make a meaningful impact through its revitalised 'Program Memacu Kehidupan,' providing essential food aid to over 10,000 underprivileged individuals across Malaysia in 2024. This initiative ensures that vulnerable communities can celebrate major festivals harmoniously and happily throughout the year.

Each food package, valued at RM200, contains staples like rice, cooking oil, flour, and canned goods, along with traditional festive foods specific to each celebration. The programme strategically covers Malaysia's cultural diversity through four major seasonal initiatives.





For Chinese New Year, we partnered with the Social Welfare Department to support five families in Perak, providing traditional celebration essentials that allowed them to welcome the Year of the Dragon with proper festivities.

During Ramadan, our Iftar and Aidilfitri outreach specifically targeted Asnaf families and orphans, offering not just food aid but also the opportunity to break fast in community settings that fostered belonging and connection.

The Deepavali celebration brought light to seven beneficiary families in Ayer Tawar and Setiawan, Manjung, with specially curated packages containing traditional items needed for proper festival observance. As the year concluded, our Christmas initiative reached seven families in Ipoh, ensuring they could celebrate the holiday season properly with all the essential provisions needed for meaningful festive gatherings.



Best MPU4 Community Engagement Project Awards 2024

The compulsory MPU4 course at UTP engages students in community-focused social responsibility projects while developing essential knowledge, skills, values, and moral principles. This is also aligned with UTP's mission to produce well-rounded graduates with global, holistic perspectives.

Several outstanding projects were recognised as champions in the MPU4 Community Engagement Project Awards across different batches: ScreenDream (Batch 22, September 2023 – January 2024), PalmCare Solutions (Batch 23, January – May 2024), Madura Smart Salt House (MaSS) (Batch 24, May – August 2024), and Empowering Kampung Suak Padi (Batch 24, May – September 2024).



Supporting Sarawak's Oil Palm Smallholders

In a collaborative effort between UTP students and Prime Agriculture Services, the PalmCare Solutions project reached over 70 Iban smallholders in Batang Undop, Sri Aman, Sarawak. This five-day initiative conducted comprehensive surveys to identify financial challenges faced by local farmers while educating them about maximising the economic potential of Native Customary Rights land through oil palm cultivation.

The project engaged the community through educational talks, practical site visits to plantations and mills, and the distribution of informative resources across three Iban longhouses. Participants gained valuable insights into plantation management, quality standards, and sustainable farming practices.



Reshaping Salt Production with MaSSBot

The Madura Smart Salt House (MaSS) project has transformed traditional salt farming in Madura Island, Indonesia. In collaboration with Universitas Trunojoyo Madura (UTM), the team developed MaSSBot—a portable Internet of Things (IoT) device that monitors critical environmental parameters, including temperature, humidity, and salinity in salt houses and fields.

The project created meaningful impact across multiple fronts by empowering 20 local salt farmers from Pamekasan with practical IoT knowledge to enhance their production efficiency, engaging 40 high school students from SMA Negeri 1 Kamal in hands-on STEM activities, and establishing a formal joint research initiative between UTP and UTM, which was approved by Lembaga Hasil Dalam Negeri Malaysia. Through workshops, demonstrations, and focus group discussions, the project successfully bridged the gap between traditional methods and modern technology, receiving enthusiastic feedback from farmers who observed tangible improvements in their production processes.



Nurturing Kampung Suak Padi's Future

Through strategic partnerships with Perak Tengah District Education Office (PPD Perak Tengah), the Department of Orang Asli Development (JAKOA), SK Suak Padi, and UTP departments, the "Empowering Kampung Suak Padi" initiative aimed to address critical socioeconomic challenges facing the Orang Asli Semai community in Perak.

The project involved introducing digital banking platforms to over 150 community members, connecting 25 female entrepreneurs with financial support through Amanah Ikhtiar Malaysia, and establishing sustainable income sources through calamansi tree planting. Composting techniques were also taught to over 100 students and villagers to promote agricultural self-sufficiency. With more than 500 total participants engaged, the project created lasting pathways to economic resilience while preserving cultural heritage.



Global Alliances, Transformative Impact





At UTP, collaborations are more than just agreements. They are bridges to transformative impact. Each partnership reflects our commitment to education, research, and student empowerment, shaping a future where innovation and excellence thrive. UTP stands at the intersection of academia and industry, forging alliances that drive meaningful change for our students, faculty, and global community.

Through strategic collaborations, we advance in three key areas:



Education

Empowering Education Through Partnerships

UTP is committed to ensuring that students receive world-class education. Through collaborations with leading institutions worldwide, we offer opportunities that go beyond textbooks and classrooms. Our MoU renewals with India’s Anna University, Vellore Institute of Technology, and UPES University ensure that our students and faculty benefit from cross-border academic exchanges, joint research, and dual-degree programmes. Meanwhile, our partnerships with Sohar University Oman and West Anhui University China unlock new frontiers in research, postgraduate education, and student mobility.

These alliances are not just about academic recognition. They are about shaping future-ready graduates. The collaboration with the Institute of Chartered Accountants in England and Wales (ICAEW), for instance, integrates globally recognised finance and business certifications into UTP’s curriculum. This gives our graduates a competitive edge in the job market.

Research, Innovation & Commercialisation

Driving Solutions Beyond Boundaries

Great minds do not work in isolation. They innovate, experiment, and transform ideas into real-world impact through collaboration. Our partnership with reNIKOLA Holdings is a prime example, as we co-develop next-generation solutions to enhance solar energy efficiency. Similarly, our collaboration with FPT Software Malaysia enables our researchers to leverage a USD 2 million AI-driven data analytics platform, accelerating digital transformation in critical industries.

With the Malaysia-Philippines Higher Education Consortium, UTP is not only strengthening academic networks but also shaping policies that influence regional education. Our MoU with RXT Greensnow Synergy advances sustainable rare earth mining practices, ensuring that our research contributes to both economic growth and environmental responsibility.

These partnerships are catalysts for global progress, reinforcing UTP's role as a hub for industry-driven research and technological breakthroughs.

Student Affairs

Building Leaders, Expanding Opportunities

At UTP, we believe that a student's journey extends beyond academics. Our industry partnerships ensure that students graduate not only with knowledge but also with real-world experience, leadership skills, and global exposure.

Through our MoU with EnQuest Petroleum Malaysia, we strengthen industry-academia engagement, providing students with mentorship, hands-on learning, and career pathways in the energy sector. Our partnership with Edra Power Holdings takes this further by offering final-year students scholarships and apprenticeships, ensuring a seamless transition from university to industry.

Meanwhile, collaborations with Sapura Energy, Lumileds Malaysia, and Minconsult Sdn Bhd open doors for students to work on live industry projects, gain industry insights from adjunct lecturers, and participate in career development programmes. These initiatives reinforce UTP's commitment to nurturing talent that is adaptable, innovative, and ready for the challenges of tomorrow.

Strategic Partnership to Strengthen Oil and Gas Workforce

UTP expanded its industry collaboration network through a significant Memorandum of Understanding (MoU) with E&P O&M Services Sdn Bhd (EPOMS) and Pahang Skills Development Centre.

The agreement was signed by UTP Vice Chancellor Prof Dato' Ts Dr Mohamed Ibrahim Abdul Mutalib, EPOMS Director Dato' Mohd Pathil Ahmad, and Pahang Skills Development Centre Executive Director Mohd Yusri Mohd Nor. Witnessed by Pahang Menteri Besar Dato' Sri Wan Rosdy Wan Ismail, Pahang State Secretary Dato' Seri Zulkifli Yaacob, EPOMS Chairman Raja Dato' Seri Mufik Affandi Raja Khalid and Pahang Skills Development Centre Chairman Dato' Mas'ut Awang Samah, the partnership aims to enhance the development of skilled technical personnel for the oil and gas sector.

Through the Centre for Advanced and Professional Education (CAPE), UTP will leverage its expertise to deliver innovative programmes and create an adaptable learning platform. This collaboration brings together EPOMS's industry leadership in operations and maintenance solutions with Pahang Skills Development Centre's established track record in technical training.



MAJLIS MENANDATANGANI MEMORANDUM PERSEFAHAMAN (MOU)



Blockchain Innovation: UTP-Minconsult Partnership Takes Shape

UTP formalised its collaboration with Minconsult Sdn Bhd through an MoU signed at the CAPE, Kuala Lumpur. This partnership, which originated from initial discussions in October 2023, focuses on advancing blockchain technology applications while fostering broader academic and research collaboration.

The partnership emphasises practical applications of blockchain technology, building on UTP's research expertise and Minconsult's industry experience in electrical projects and audits. Drawing from UTP's successful implementation of Halal Blockchain Technology in the cocoa industry, the collaboration aims to develop efficient tracking systems for reporting and verification processes.

The agreement encompasses various initiatives, including joint research projects, academic programs, and industry attachments for students and lecturers. Additionally, Minconsult experts will contribute to UTP's academic environment as potential adjunct lecturers, ensuring students benefit from direct industry insights. This comprehensive partnership exemplifies UTP's commitment to bridging academic excellence with industry needs, positioning the university at the forefront of technological innovation and professional development.



Pioneering Sustainable Rare Earth Research Through Industry Partnership

UTP has entered into a Joint Collaborative Agreement (JCA) with RXT Greensnow Synergy Sdn Bhd to advance research in rare earth elements (REE). The agreement was signed by Vice Chancellor Prof Dato' Ts Dr Mohamed Ibrahim Abdul Mutalib and Director for the Institute of Hydrocarbon Recovery (IHR) Assoc Prof Dr Syahrir Ridha, witnessed by His Royal Highness Raja Muda Perak Raja Ja'afar Raja Muda Musa.

This strategic partnership leverages UTP's location in the mineral-rich state of Perak, particularly its ion absorption clay-based REE deposits. Through the Institute of Hydrocarbon Recovery (IHR), we will spearhead research initiatives in mineral processing technology, exploration techniques, and sustainable extraction processes. The collaboration aims to develop innovative solutions for REE separation and purification while addressing global supply chain challenges.



MoU Renewals with 3 Leading Indian Universities

UTP reinforced its international academic network by renewing partnerships with three renowned Indian institutions: Anna University, Vellore Institute of Technology (VIT), and University of Petroleum and Energy Studies (UPES). The memoranda were signed at Park Hyatt Chennai by Vice Chancellor Prof Dato' Ts Dr Mohamed Ibrahim Abdul Mutalib and Deputy Vice Chancellor Student Affairs, Professor Ir Ts. Dr Nor Hisham Hamid, representing UTP. The renewed partnerships reaffirm our commitment to academic excellence, research collaboration, and cross-cultural engagement within the global academic community.



UTP and Sohar University Oman Collaborate to Advance Research Initiatives

A significant collaboration was formalised through an MoU between UTP and Sohar University Oman. This partnership, which evolved from initial discussions in 2018, encompasses multiple research domains, including energy transition, agricultural and fisheries studies, geopolymer composite research, and wastewater management.

Through this partnership, both institutions will conduct comprehensive studies, share research findings through academic publications and conferences, enhance research capabilities, and promote cultural exchange.

As part of this enhanced partnership, Sohar University joined as an international conference organiser for ESTCON2024, UTP's biennial World Engineering, Science and Technology Congress. This collaboration strengthens UTP's presence in the Middle East, and opens new avenues for addressing global challenges and securing international research grants through organisations such as Grand Challenges Canada, Erasmus, and the Gulf Cooperation Council.



MoU to Advance Civil and Environmental Engineering

UTP formalised a partnership with Dr Nik & Associates Sdn Bhd (DNA) to enhance its Civil and Environmental Engineering programme. The MoU was signed by Vice Chancellor Prof Dato' Ts Dr Mohamed Ibrahim Abdul Mutalib and the Dean of the Faculty of Engineering, Assoc Prof Ir Dr Rosdiazli Ibrahim, with DNA represented by Executive Chairman Dato' Ir Dr Nik Mohd Kamel Nik Hassan and Director Ir Ts Nik Abdullah Mu'az Nik Mohd Kamel. The collaboration encompasses academic initiatives, research projects, and mobility opportunities, with plans for joint supervision of design projects, student performance evaluation, and consultancy projects. This partnership aims to align academic offerings with industry requirements while fostering technological advancements in civil and environmental engineering.



Strengthening Ties with UPN Yogyakarta

UTP expanded its international academic network by entering into an MoU with Universitas Pembangunan Nasional Veteran Yogyakarta (UPN), building upon collaborative activities that began in 2019 through MPU4 activities, Aktivitas Pendidikan Kolaborasi antara UTP dengan UPN. Previously, the partnership has yielded results through various initiatives, including joint publications, research endeavours in Petroleum Engineering and Geosciences, and the participation of Assoc Prof Dr Ismail in the 3rd International Conference on Earth Science, Mineral, and Energy (ICEMINE) 2020.

Through UTP's Institute of Hydrocarbon Recovery for Enhanced Oil Recovery (IHR), the collaboration focuses on earth sciences, with opportunities for student and staff exchanges, postgraduate programmes (MSc and PhD), and joint research initiatives. The partnership includes a matching grant for international collaborative research, demonstrating both institutions' commitment to advancing subsurface research and earth sciences.

Boosting Industry-Academia Synergy Sapura Energy Partnership

UTP solidified its relationship with Sapura Energy Berhad through an Memorandum of Collaboration (MoC) signed by Vice Chancellor Prof Dato' Ts Dr Mohamed Ibrahim Abdul Mutalib and the Dean of the Faculty of Engineering Assoc Prof Ir Dr Rosdiazli Ibrahim, with Sapura Energy represented by Chief People Officer Puspa Hanita Abd Aziz and Head of Human Resource Administration Rosdy Abdullah.

On the academic end, the MoC agreement includes industry expert appointments for knowledge sharing, Sapura Energy Berhad's role as external examiners, and industry visits. The collaboration aims to develop well-rounded global graduates through practical exposure and comprehensive industry-relevant education. At the same time, joint research and development activities will address energy sector challenges.





UTP Expands Collaboration with Lumileds Malaysia

UTP signed an MoU with Lumileds Malaysia Sdn Bhd, building upon a collaboration that began with the tenure of Mr Loganathan Muniandy, former Managing Director and Vice President of Operations of Lumileds, as UTP's CEO@Faculty from February 2022 to January 2024. Under his leadership, UTP lecturers, Dr Lila Iznita Izhar, Dr Veerasadan Perumal and Dr Norlin Nosbi joined a staff attachment programme at Lumileds.

Other notable achievements from our partnership include securing an ICRF project, collaboration for an internal grant with Lumileds' Dr Sam Ong, and co-organising the Programme Ziarah Ramadhan & Sumbangan Hari Raya Aidiladha 2023, benefiting Rumah Anak Kesayangan Kepala Batas (Penang) and Asrama Anak-anak Yatim Maahad Darus Salam (Ipoh).

Moving forward, the partnership includes plans for knowledge-sharing events and the proposed appointment of an adjunct lecturer to enhance curriculum and student development.

2020.





Uniting to Enhance Energy Education

UTP signed a collaborative agreement with IPC Malaysia B.V. (IPCM) and SLB to advance energy education through a unique initiative focusing on refurbished electric submersible pump (ESP) technology. The collaboration, coinciding with the opening of the Lukas Artificial Lift Study Laboratory (Lukas ALS Lab), was formalised through an agreement signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib, IPCM General Manager Ben Kwa, and SLB Managing Director Meng Keong Lee.

The partnership includes internship placements and advisory panel membership from IPCM, while SLB continues its longstanding support of UTP's Petroleum Engineering programme while providing industry insights and resources. This sustainable initiative transforms the decommissioned ESP, a type of artificial lift system used in oil wells, into valuable educational tools. This combined effort promotes environmentally conscious practices while providing hands-on learning experiences to UTP students and faculty.



Pioneering Professional Accounting Qualification with ICAEW

Through a landmark collaboration with the Institute of Chartered Accountants in England and Wales (ICAEW), UTP became Malaysia's first university to offer ICAEW qualifications to non-accounting students, including students enrolled in the Bachelor of Business Management (BBM) programme and other disciplines. The agreement, signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and ICAEW Head of Malaysia Shenola Gonzales, incorporates ICAEW's Certificate in Finance, Accounting, and Business (CFAB) syllabus into UTP's new Accounting and Finance Minorng package.

The signing was witnessed by UTP Pro Chancellor and PETRONAS President and Group CEO Tan Sri Tengku Muhammad Taufik and ICAEW Council Member Dato' Mohammad Faiz Azmi. The collaboration includes professional development opportunities for faculty members and aims to enhance graduate employability through internationally recognised qualifications.



Strengthening Malaysia-Philippines Educational Ties

UTP signed a landmark MoU with the Commission on Higher Education (CHED) of the Philippines and eight Philippine higher education institutions to strengthen educational cooperation between both nations. The consortium includes UTP, CHED, Palawan State University, Batangas State University, University of Southeastern Philippines, Technological University of the Philippines, Guimaras State University, Kalinga State University, Western Philippines University, and Occidental Mindoro State College.

The partnership provides a platform for joint research projects, faculty and student exchange programmes, curriculum development, and academic workshops and conferences, aiming to drive innovation and develop a more skilled workforce while fostering cultural exchange.



Academic and Cultural Exchange between UTP and West Anhui University

UTP expanded its international presence through a partnership with West Anhui University (WAU) China, aligning with the Chinese government's Sino-Foreign Collaborative Programme initiative.

The MoU, signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and WAU President Prof Ts Dr Huang Yourui, with second signatories UTP Deputy Vice Chancellor Academic Prof Ir Dr Hilmi Mukhtar and WAU Director of Academic Affairs Prof Dr Fu Maosheng, establishes collaborative academic programmes and student mobility initiatives between both institutions.





UTP Reaffirms Partnership with China University of Petroleum Beijing

UTP renewed its academic and research partnership with China University of Petroleum (CUP) Beijing, building upon their collaboration established in 2019. The agreement was signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and Deputy Vice Chancellor Research, Innovation and Commercialisation Assoc Prof Ts Dr Mohd Fadzil Hassan, with CUP Beijing represented by President Prof Jin Yan and Deputy Director of International Office Prof Feng Yongcun.



The MoU includes establishing a Joint Research Centre focusing on petroleum engineering, CCUS, and AI, postgraduate and staff exchange programmes, along with collaborative undergraduate programmes in Computer Science and Information Systems.



UTP and Australian University of Kuwait Launch Academic Partnership

UTP expanded its Middle Eastern partnerships through an MoU with Australian University of Kuwait (AU), signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and AU President Prof Isam Zabalawi. The collaboration encompasses academic and administrative knowledge exchange, scientific research, faculty exchange programmes, joint conferences, shared access to resources, and postgraduate pathways for AU graduates.

A key focus includes potential joint degree programmes in Petroleum Engineering. This partnership builds upon UTP's existing connections with Kuwait, following last year's agreement with Malaysian Kuwaiti Investment Co. Sdn Bhd (MKIC) for palm oil industry research, and aims to increase UTP's current Kuwaiti student enrollment.





UTP and University of Nottingham Malaysia Partner for Regional Research Impact

UTP formalised a strategic partnership with the University of Nottingham Malaysia (UNM), progressing from initiatives started by former Deputy Vice Chancellor for Research, Innovation, and Commercialisation, Prof Ir Dr Mohd Shahir Liew. The collaboration emerged from discussions on potential collaboration in research and academic initiatives, particularly in social innovation, and culminated in the MoU, which includes provisions for matching grants, training programmes, and co-supervisor initiatives.

The MoU focuses on developing a comprehensive business and research model and promoting collaborative efforts between UTP and University of Nottingham, extending to Indonesia, Thailand, Vietnam, and the Philippines.

The joint initiatives will focus on diverse areas, including green technology and computing, social innovation, green accounting, micro-financing, Environmental Sustainability and Governance (ESG), Science, Technology, Engineering, Art and Architecture, And Mathematics (STEAM), indigenous studies, electric vehicles, and behavioural studies.



Synergising to Enhance STEM Education

UTP entered into an MoU with Matroll Solutions to advance STEM education and foster innovation within the academic community and beyond, particularly through the innovative application of FlowLogic. The collaboration, represented by Matroll Solutions' Founder Loganathan Alagan and Advisor Prof Dr Othman Mohamed, focuses on integrating FlowLogic 6 into UTP's curriculum to enhance student and educator capabilities.

The partnership aligns with national initiatives, including Matroll Solutions' ongoing collaborations with key government agencies and ministries, including the Malaysian Ministry of Youth and Sports (KBS), Ministry of Human Resources (KSM), Ministry of Economy, and the Ministry of Education, focusing on upskilling and developing educators into professional STEM Educators within their respective educational institutions. UTP's initiatives also support the National Science, Technology and Innovation Policy (DSTIN) 2021-2030 and the Ministry of Higher Education's strategy for improving academic quality and leveraging emerging technologies.





UTP and reNIKOLA Launch Research Partnership to Advance Solar Plant Efficiency

UTP signed a Research Collaboration Agreement (RCA) with reNIKOLA Holdings Sdn Bhd to embark on a groundbreaking project aimed at enhancing the efficiency of large scale solar (LSS) plants. The agreement, signed by Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and reNIKOLA Head of Operations Andy Cheng, emerged from UTP's successful student industrial training placement the year before.

The RCA will create opportunities for knowledge exchange, technical visits, research and innovation projects, and consultancy services. UTP brings significant solar expertise to the partnership, having installed Malaysia's largest single solar rooftop (7.4MWp) with Gentari Sdn Bhd, which has generated over 13,000 MWh of clean electricity since 2022. The partnership includes plans for long-term system performance pilot tests at reNIKOLA LSS locations and UTP's role as a consultant for future reNIKOLA development endeavours.



Driving Innovation in Electronics with Infinecs

UTP formed a strategic partnership with Infinecs Systems Sdn Bhd through an MoU signed by UTP Vice Chancellor Prof Dato' Ir Ts Dr Mohamed Ibrahim Abdul Mutalib and Infinecs CEO Kalai Selvan Subramaniam. The comprehensive agreement includes plans to provide Infinecs staff opportunities to pursue a Master of Science in Electronic Systems Engineering through Online Distance Learning at UTP, sponsorship of Final Year Projects for Electrical and Electronic Engineering and Computer Engineering students by Infinecs, and the appointment of Infinecs CEO as an adjunct lecturer in the EEE Department.

The collaboration paves the way for future collaboration, particularly on DDR5 controllers for RISC-V processors research and development, with plans for campus hiring events to facilitate graduate employment opportunities.



UTP Partners with EnQuest to Nurture Energy Sector Talent

EnQuest Petroleum Production Malaysia Ltd and UTP partnered via an MoU, marking a significant step towards bolstering collaboration and industry-academic synergies. The agreement was signed at the Four Seasons Hotel Kuala Lumpur, with EnQuest Chairman Mr Gareth Penny in attendance, along with General Manager and Country Head Ahmed I Razif and UTP Vice Chancellor Prof Dato' Ir Ts. Dr Mohamed Ibrahim Abdul Mutalib. The collaboration is expected to explore opportunities for joint research initiatives, knowledge exchange programmes, and technical collaborations, aiming to support the industry with qualified Malaysian talent.



Advancing Technology Education with AI Platform Integration

UTP and global technology corporation FPT signed an MoU to advance Malaysia's technology education and digital transformation landscape. The collaboration centres on a USD 2 million software donation from FPT, including access to their Total Augmented Data Analytics (TADA) solution - an AI-driven unified data management platform currently used by 20 energy companies.

This platform, which processes and analyses data up to 100 times faster than traditional methods, will enable students and faculty to enhance their analytical skills and boost productivity by 50% through actionable insights. FPT will provide comprehensive training and technical support to UTP staff and students to maximise the platform's educational potential.

The partnership extends beyond technology integration, encompassing knowledge exchange, internships, and collaborative research projects in critical sectors, including healthcare, energy, autonomous systems, and sustainability. Building on FPT's role as PETRONAS's



long-term trusted IT partner in digital transformation initiatives, the collaboration also aims to facilitate student exchanges between FPT University and UTP. This partnership strengthens FPT's presence in East Malaysia and the Brunei region while supporting their growing client demands. FPT, which entered Malaysia in 2006, has achieved Multimedia Super Corridor (MSC) status for its contributions to Malaysia's digital economy.

FPT Software Malaysia Supports UTP with USD 2 Million Software Sponsorship

In conjunction with FPT TECHDAY 2024 in Ho Chi Minh City, FPT Software Malaysia and UTP signed a Software Sponsorship Agreement valued at USD 2 million to enhance UTP's technological capabilities. The collaboration builds on a relationship established in 2022, when FPT University became a co-organiser for ESTCON2022 in Kuching, Sarawak. This partnership continued with FPT University's participation in ESTCON2024 in Kota Kinabalu, Sabah, where they contributed papers and sent delegates.

The partnership has already shown success through student mobility initiatives, with UTP hosting FPT University students in its Intensive English Learning Programme throughout 2023. Currently, UTP has 11 Vietnamese PhD students and 129 Vietnamese alumni. Looking ahead, both institutions envision expanding their collaboration through customised training programmes, research initiatives, and the potential establishment of a joint innovation lab.

Strategic Alliance forms between UTP and Jaipuria Institute of Management

Since connecting during the World International Conference on Environmental, Social, and Governance (ICESG2022) at ESTCON 2022 in Kuching, Sarawak, UTP has formalised a partnership with Jaipuria Institute of Management.

The collaboration includes an international grant transfer from Jaipuria to UTP, as well as promising opportunities for collaborative research, staff exchange programmes, and a student immersion initiative, in which UTP will be hosting 10 to 12 Jaipuria students in January 2025. The partnership will feature workshops on research methodologies and strategies for high-impact journal publishing, leveraging Jaipuria's expertise in energy management.



Powering Sustainable Engineering Innovations with PT Adhi Karya

UTP has entered into an MoU with Indonesia's PT Adhi Karya (Persero) Tbk, following discussions initiated in late 2023 and deepened through delegation visits in April 2024. The collaboration focuses on Carbon Capture, Utilisation, and Storage (CCUS), with PT Adhi Karya participating in ESTCON2024 in Kota Kinabalu, Sabah, and even identifying staff members to pursue MSc studies at UTP.

The partnership encompasses three key strategic initiatives: establishing a Service Level Agreement for UTP's subject matter experts to support PT Adhi Karya's operations, facilitating PT Adhi Karya's employee development through training programmes and postgraduate studies, and exploring CCUS business collaborations with PETRONAS.

The collaboration leverages PT Adhi Karya's expertise in engineering, procurement, and construction (EPC), particularly their advanced Building Information Modeling (BIM) capabilities in infrastructure projects. The partnership includes providing field-testing grounds for UTP's innovative technologies while offering students practical industry exposure.

New Pathways for Postgraduate Education via UTP-USM Collaboration

UTP and Universiti Sains Malaysia (USM) established an agreement to provide alternative pathways to postgraduate education through USM's Accreditation of Prior Experiential Learning (APEL) Assessment Centre. The initiative, which emerged from a benchmarking visit by UTP's Centre for Graduate Studies (CGS) team, enables candidates without conventional qualifications to pursue Master's by coursework programmes.

Through the APEL pathway, prospective students now have a structured, alternative route to demonstrate their readiness for advanced studies, supported by both institutions. This partnership not only validates the experiences and skills of prospective students but also aligns with the United Nation's Sustainable Development Goals (SDG), with emphasis on the fourth SDG on Quality Education. The collaboration complements UTP's existing flexible education platforms, including ULearnPlus, Open and Distance Learning, and CAPE short courses, with plans for USM to co-organise ESTCON 2026 in Pulau Pinang.



Edra Power Holdings and UTP Join Forces for Talent Development

Edra Power Holdings Sdn Bhd (EPH) and UTP signed an agreement to advance human capital development through multiple initiatives. The collaboration, initiated by UTP's Yayasan Universiti Teknologi PETRONAS (YUTP) and Student Affairs team in 2023, will launch the Edra Power Holdings Young Talent Programme in 2025, featuring both scholarship opportunities for final-year students and an Apprenticeship Programme.

The collaboration resulted from past initiatives, including internships and employment opportunities for UTP students at Edra. Additionally, Edra staff are encouraged to enrol into UTP's Master's programme through Online Distance Learning. UTP is committed to advancing talent sourcing and development alongside Edra, with plans for Edra to participate in UTP's annual Technology, Education & Career (TEC) fair.



UTP and Weatherford Establish World-Renowned Sand Solutions Laboratory

UTP and Weatherford signed a Memorandum of Agreement (MoA) to advance research in Sand Control and Management. The initiative was catalysed by Weatherford's donation of specialised equipment valued at approximately RM2 million, previously stationed in the United Kingdom. The World-Renowned Sand Solutions Laboratory, to be led by UTP's Ir Dr Mohd Azuwan Maoinser and Weatherford's Muhammad Fadzli Abdul Rahim, will be supported by the Centre of Flow Assurance under the Institute of Sustainable Energy and Resources (ISER).

This facility will set new benchmarks in sand control and management research, focusing on studying sand screen performance evaluation. The partnership includes the potential sponsorship of a Professorial Chair by Weatherford to enhance UTP's expertise and global connections in petroleum engineering education and research. Future initiatives include technical training programmes to maximise equipment potential and a planned joint visit to Weatherford's screen manufacturing plant in Singapore.





UTP Partners with PERHILITAN to Advance Wildlife Conservation Technology

UTP strengthened its commitment to environmental conservation by signing an MoU with the Jabatan Perlindungan Hidupan Liar & Taman Negara (PERHILITAN) Peninsular Malaysia. The partnership, which strengthens PERHILITAN's role as Malaysia's leading biodiversity custodian, focuses on several key areas, including human-wildlife conflict prevention, Industry 4.0 technologies applications, staff and student exchanges, scientific publications, and commercialisation of products such as ELEFence and ELESensor.

A key highlight of this partnership is the ELEFence project, led by Assoc Prof Ir Dr Hisham bin Mohamad. The innovative system, featuring high durability, minimal maintenance requirements, and an eco-friendly modular IBS system, has gained international recognition through medals at ITEX 2023 and Seoul International Innovation Fair 2024, along with a special award from the National Research Council of Thailand. The collaboration has also produced ELESensor, an IoT and LoRaWAN-based technology for remote electric fence monitoring, which will undergo pilot testing in Sungai Siput, Perak in early 2025 following successful campus trials in 2023.



Bonds Beyond Generations





Universiti Teknologi PETRONAS (UTP) takes pride in its global network of 25,764 alumni across more than 100 countries, making significant strides in their respective fields. In 2024, we successfully organised over 26 alumni events and activities, both locally and internationally, reinforcing our commitment to staying connected with our alumni, no matter where their journeys have taken them.

With the invaluable support of the UTP Alumni Association, our alumni community has made remarkable contributions through financial support, industry expertise, strategic collaborations, and partnerships. These collective efforts have resulted in a 56% Alumni Engagement Index, reflecting the enduring bond between the university and its graduates.

By staying connected, our alumni gain access to lifelong learning opportunities, career advancement resources, professional networking, and industry collaborations—all of which not only enhance their personal and professional growth but also contribute to the university's continued excellence and global impact.







UTP Alumni Gathering in Nigeria



UTP Alumni Iftar with Project Delivery and Technology, PETRONAS at An Nur Mosque in UTP



UTP Alumni Chinese New Year Celebration



Meet & Greet with EEE Alumni in Kulim



Meet & Greet with EEE Alumni in Penang



Riang Ria Raya with UTP Alumni



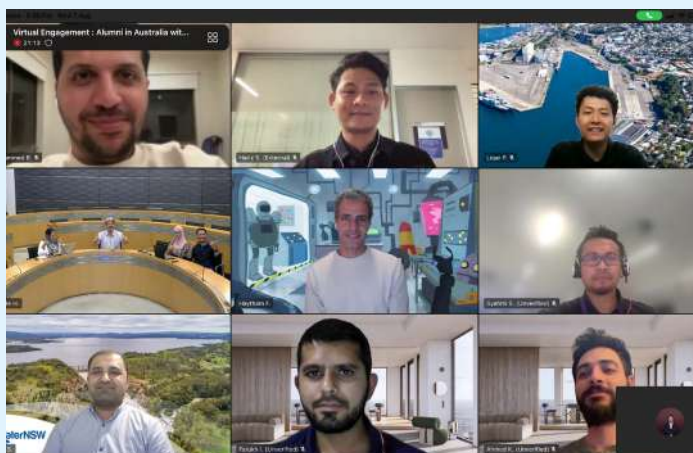
UTP Alumni Entrepreneur Networking Day



Alumni Sharing by Dr Izdihar: 5 Steps to Write Your Book FAST Using AI



MED Soiree 2.0: Alumni and Industry Engagement



Virtual Engagement: Alumni in Australia



Signing Ceremony UTP Alumni Association Partnership with Samsung Malaysia



Signing Ceremony UTP Alumni Association Partnership with Hyundai Sime Darby Malaysia



Meet & Greet with UTP Alumni in Sabah, Hyatt Centric, Kota Kinabalu



UTP Alumni Association CUP 2024



Majlis Makan Malam Alumni
Persatuan Seni Silat Cekak Malaysia



UTP Alumni Homecoming 2024, UTP, Perak



Be An Influencer of Change, I am Flowers, Singapore



Chemical Engineering Grand Alumni Dinner

Governance

Tan Sri (Dr) Mohd Hassan Marican
Chancellor



**Tan Sri Tengku Muhammad Taufik
Tengku Kamadjaja Aziz**

Pro Chancellor



Tan Sri Zaharah Ibrahim

Pro Chancellor



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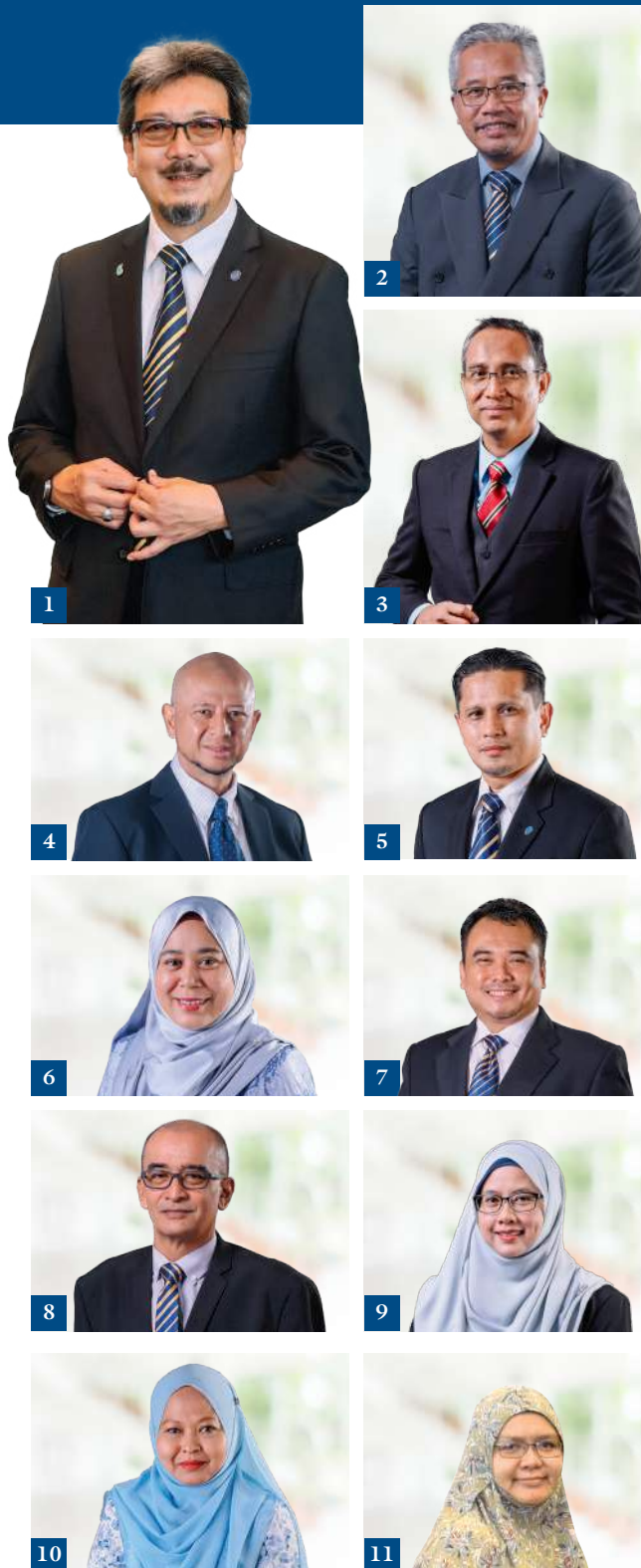
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Deputy Vice Chancellor Research, Innovation & Commercialisation
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Chief Support Services Officer
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Director, Legal Services

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*Chief Executive Officer, Sabah Energy Corporation Sdn
Bhd*
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*General Manager, TotalEnergies Malaysia Sdn Bhd
(end date 31 August 2023)*
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*Global Product Line Manager, Weatherford (Malaysia)
Sdn Bhd*
13. Srirangam R Srirangarajan
Managing Director, Altair Engineering Sdn Bhd
14. Peter Godfrey
Managing Director, Energy Institute
15. Assoc Prof Ts Dr M Fadzil Hassan
*Deputy Vice Chancellor Research, Innovation &
Commercialisation
Universiti Teknologi PETRONAS*



Student Development Advisory Council (SDAC)

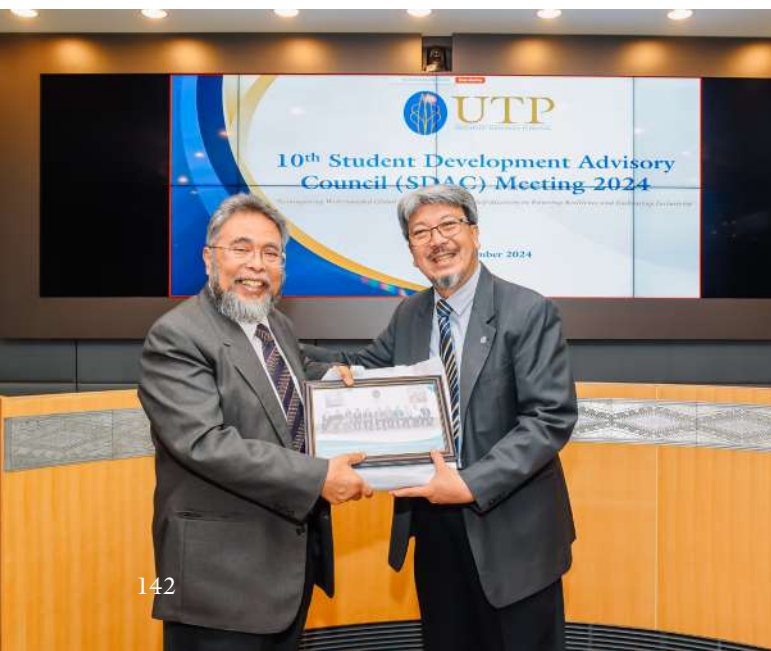


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Telekom Malaysia*
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Telekom Malaysia*
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Universiti Teknologi PETRONAS*



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Anna University, India*
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Director, Energy, Power and Intelligent Control Research
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Cardiff University, UK*
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University of Bristol, UK
(Tenure: 1 December 2021 - 30 November 2023)*
- Prof Richard Hazenberg
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- Rizal Harris Wong
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PSM Section, Technical Delivery Excellence
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- Environmental, Health & Safety (EHS)
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*General Manager, LNG Project
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HSS Integrated Sdn Bhd and BIM Global Ventures
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*Director, System Solution Engineering
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- Wan Azli Wan Ismail
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- Raja Mahmud Raja Adnan
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Micron Memory Malaysia Sdn Bhd*
- Sharul A Rashid
*Custodian Engineer Instrumentation & Control
PETRONAS*
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*Vice President & General Manager
StarFive Technology International Sdn Bhd*
- Siti Najihah Azhar
*Assistant General Manager to CX Strategy & Customer
Journey / Special Officer to TM Group Chief Marketing
Officer (CMO)
Telekom Malaysia™ Berhad*
- Ir Cornelius Ting Kang Lung
*Custodian, Organization (C&S Design & Integrity –
Onshore), Group Technical Solutions, PD&T
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Head (Compliance & Risk Management)
TNB Power Generation Sdn Bhd
- Ir Ong Hock Guan
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Sarawak Shell Malaysia
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Principal Scientist
PETRONAS Research Sdn Bhd
- Kenny Lim Kheng Lai
Commodity Manager for Thermal Polymer PTIM, Sealant and VCTIM
INTEL Penang
- Ir Dr Abdul Azim Abdul Rahman
Director – Product Development Asia Pacific Product Engineering
Steelcase Office Solutions (M) Sdn Bhd
- Yunus Talib
Executive Director/Executive Vice President
Uzma Berhad/UZMA Engineering Sdn Bhd
- Ts Dr Liza Mohd Anuar
Head, Materials Engineering, Group Engineering
Perusahaan Otomobil Nasional Sdn Bhd (PROTON)
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Discipline Manager – Engineering Data
SBM Offshore
- Ir Ts Dr Ridwan Mokhtar
Senior Manager, Production Delivery – PM Gas Production & Operations Management Malaysia
Petroleum Management
PETRONAS
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DRB-Hicom Bhd
- Ir Ts Dr Harris Abd Rahman Sabri
Principal Rotating, Technical Excellence
Centre of Operational Excellence (CoE), PETRONAS Upstream

Petroleum Engineering

- Syahir Luthfi Chan
Managing Director – Thailand, Cambodia & Laos
Schlumberger Overseas S.A.
- EUR ING Ts Mohamad Sukor Zainal Abiddin
Executive Director/Technical Director
EFTECH Director Solutions Sdn Bhd (KL)
- Louay Louis Laham
Chief Executive Officer, Drilling
Sapura Energy Berhad
- Dr M Faizal Sedaralit
Chief Scientist (Reservoir Engineering)
PETRONAS Research Sdn Bhd
- Allida Muhammad Said
Chief Operating Officer/Staff Engineer
Energy Quest Sdn Bhd
- Liong Sze Jon
Senior Manager, Business Development
Halliburton Malaysia
- Mohamad Hanif Hashim
Senior Vice President & General Manager
Petrofac Malaysia
- Imran Hakim Abdul Aziz
Chief Executive Officer
Deleum Oilfield Services Sdn Bhd
- Ts Chen Jiun Horng (Chris)
Production Technologist
International Petroleum Corporation, Malaysia
- Mohd Abshar Mohd Nor
General Manager Well Integrity, Intervention & Workover
PETRONAS Carigali Sdn Bhd
- Shahrul Nizar Ahmad
Vice President, Corporate Services
Velesto Energy Berhad

Geosciences

- Shivaji Maitra
Director & Imaging Manager - Malaysia, Sr. Geophysical Advisor, CGG Kuala Lumpur
- Abdullah Hj Sulaiman
Pengarah, Cawangan Perancangan dan Pengurusan Jabatan Mineral dan Geosains Malaysia
- Devendran Arumugam
Manager - SI & Geophysics Gamuda Engineering Sdn Bhd
- Oskar Pariang Pakpahan
Head of Geophysics SKYE UMDP Exploration
- Suhaileen Shahar
Custodian Petroleum Geoscience, PETRONAS
- Azwa Jannah Abu Bakar
Staff Geoscientist PETRONAS
- Khairool Anwar Laksamana
Resource Exploration & Development Advisor PETROS

Computer and Information Sciences

- Datuk Ts Dr Mohamed Sulaiman Sultan Suhaibuddeen
Chief Network Security Officer Malaysian Communications and Multimedia Commission
- Eidia Erriany Abdul Rahim
Managing Director & Executive Director POIS Sdn Bhd
- Wan Rushaidi Imran Wan Abdul Razak
Founder and Managing Director Assuring Consulting Sdn Bhd
- Alvin Gan Seng Heng
Executive Director & Head of Technology Consulting KPMG, MY
- Dr Maslina Daud
Senior Vice President CyberSecurity Proactive Services Division

- Kamarul Zaman Abdul Rashid
Director Programmable Platform Engineering (Penang) Intel Corporation
- Aik Chong Phuah
Head of Digital Engineering PETRONAS
- Ts Datin Habsah Nordin
Head, Enterprise Data PETRONAS

Fundamental and Applied Sciences

- Chua Jong Huei
Group R&D Manager MAPA GLOVES Sdn Bhd
- ChM Dr Sathish Komar Subramaniam
Senior Advisor & CTO Bactiguard AB, Sweden
- Dr Ng Thian Hong
Group Chief Strategy Officer Harps Global Pte Ltd
- Dr Siti Zuraidah Mohamad Zobir
Senior Scientist I Strategic Planning and Development Department National Institutes of Biotechnology Malaysia (NIBM)
- Jeffree Mohamed
Analytical Technology Principal Engineer Group Technical Solution (GTS), PETRONAS
- Norliza Saparin
Head, Oils & Fats, SD Guthrie Technology Centre Sime Darby Plantation Research

Accreditation Council (UTPAC)

Management and Humanities

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Chief People and Culture Officer
Prince Bank, Cambodia
- Tan Sri Datuk Amar (Dr.) Hamid Bugo
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Chairman of the State Library of Sarawak
Founder, Sego Holdings Sdn Bhd
Chairman of Board:
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 - » *Sapura Resources Berhad*
 - » *X-Fab Silicon Foundries SE, Belgium*
- Izad Ismail
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Multimedia University Foundation
- Dr Paul Lim Pang Kiam
 - » *Director & Group CEO - K. Seng Seng Corporation Berhad*
 - » *Independent Non-Executive Chairman – Engtex Group Berhad*
 - » *Independent Non-Executive Chairman - SDS Group Berhad*
- Datuk Adzmir Abd Rahman
Chief Executive Officer
Sabah Energy Corporation Sdn Bhd
- Dr Taranjeet Singh
 - » *Chief Executive Officer, Quantum Steppe Advisory*
 - » *Board Mentor Institute of Corporate Directors Malaysia*
 - » *Co Founder JoOpps*
 - » *Immediate Past Chair, Board Member, Chartered Management Institute UK Regional Board*
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 - » *Member to the Malaysian Graduate School of Entrepreneurship and Business Advisory Council University Malaysia Kelantan*

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7. Prof Ts Dr Shahrina Md Nordin
Universiti Teknologi PETRONAS
8. Assoc Prof Ts Dr Izzatdin Abd Aziz
Universiti Teknologi PETRONAS

Universiti Teknologi PETRONAS

The UTP Annual Review 2024 includes reports, activities and events of Universiti Teknologi PETRONAS from 1 January to 31 December 2024. It is available in both print and online versions.

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