



# **UMPSA** **2025**

**SUSTAINABILITY REPORT**

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# Acknowledgement

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On behalf of the Sustainable Development Centre, we are pleased to present the Sustainability Report 2025, which reflects Universiti Malaysia Pahang Al-Sultan Abdullah's (UMPSA) ongoing commitment to advancing sustainability across its academic, research, and operational activities.

This report is the result of **strong collaboration and dedication from many individuals and departments within the university**. I would like to express my sincere appreciation to the university's top management for their visionary leadership and continuous support in embedding sustainability as a core institutional priority. Their commitment has enabled UMPSA to align its initiatives with national agendas and the Sustainable Development Goals (SDGs).

We would also like to thank all faculties, centres, administrative departments, and students who have contributed valuable data, insights, and best practices. Your efforts in integrating sustainability into teaching, research, campus operations, and community engagement have been instrumental in strengthening UMPSA's sustainability journey.

Our gratitude extends to external stakeholders, including industry partners, local communities, and government agencies, for their continuous support and collaboration. Your involvement has helped expand our impact beyond the campus and contribute meaningfully to society and the environment.

As we reflect on our progress, we remain **committed to continuously improving our ESG practices and fostering a culture of sustainability**. Together, we will continue to build a more sustainable and resilient future for UMPSA.

*Dr. Suhaidah Hussain,  
Director  
Sustainable Development Centre*



# Table of Contents

<b>SDG 1 : NO POVERTY</b>	<b>5</b>
<b>SDG 2 : ZERO HUNGER</b>	<b>8</b>
<b>SDG 3 : GOOD HEALTH AND WELL BEING</b>	<b>10</b>
<b>SDG 4 : QUALITY EDUCATION</b>	<b>12</b>
<b>SDG 5 : GENDER EQUALITY</b>	<b>16</b>
<b>SDG 6 : CLEAN WATER AND SANITATION</b>	<b>19</b>
<b>SDG 7 : AFFORDABLE AND CLEAN ENERGY</b>	<b>23</b>
<b>SDG 8 : DECENT WORK AND ECONOMIC GROWTH</b>	<b>27</b>
<b>SDG 9 : INDUSTRY, INNOVATION AND INFRASTRUCTURE</b>	<b>31</b>
<b>SDG 10 : REDUCE INEQUALITIES</b>	<b>35</b>
<b>SDG 11 : SUSTAINABLE CITIES AND COMMUNITIES</b>	<b>38</b>
<b>SDG 12 : RESPONSIBLE CONSUMPTION AND PRODUCTION</b>	<b>41</b>
<b>SDG 13 : CLIMATE ACTION</b>	<b>44</b>
<b>SDG 14 : LIFE BELOW WATER</b>	<b>48</b>
<b>SDG 15 : LIFE ON LAND</b>	<b>51</b>
<b>SDG 16 : PEACE, JUSTICE AND STRONG INSTITUTIONS</b>	<b>55</b>
<b>SDG 17 : PARTNERSHIP FOR THE GOALS</b>	<b>57</b>



# NO POVERTY



**ZAKAT CONTRIBUTION FOR STUDENT WELFARE FROM PETRONAS CHEMICALS MTBE SDN.BHD**



Universiti Malaysia Pahang Al-Sultan Abdullah received a corporate zakat contribution amounting to RM200,000 from PETRONAS Chemicals MTBE Sdn. Bhd. to support underprivileged (asnaf) students. The contribution, channelled through Yayasan UMPSA’s i-Campus platform, aims to alleviate students’ financial burden and ensure uninterrupted access to higher education. As of mid-2025, the university has distributed RM423,900 in zakat assistance to 675 students, reflecting its strong commitment to supporting B40 groups and preventing student dropout due to financial constraints.

**HARI RAYA AIDILFITRI CONTRIBUTION BY PENTAKOM STUDENTS WITH YAYASAN TAQWA, YAYASAN BUSHRA, AND YAYASAN UMPSA**



On Mar 19, 2025, the Computer Technology Student Association (PETAKOM) from the Faculty of Computing, in collaboration with Yayasan Taqwa, Yayasan Bushra, and Yayasan UMPSA, distributed Hari Raya contributions totaling RM10,000 to 100 students. The recipients included orphans, zakat recipients (asnaf), and students from underprivileged backgrounds, specifically aligning with the goal of ending poverty



## KEMBARA KOMUNITI ORANG ASLI CHERAH BARU, CAMERON HIGHLAND



Universiti Malaysia Pahang Al-Sultan Abdullah through its community engagement initiative implemented the Kembara Komuniti programme with the Orang Asli community in Chenan Cherah Baru, Cameron Highlands. The programme focused on community empowerment through outreach activities, knowledge sharing, and socio-economic support to improve the well-being of rural and indigenous communities.

## FARMER COMMUNITY EMPOWERMENT THROUGH SOCIAL ENTREPRENEURSHIP AND AGRICULTURAL TVET

Universiti Malaysia Pahang Al-Sultan Abdullah promotes farmer empowerment through social entrepreneurship and TVET-based training, enhancing skills, productivity, and income generation. This approach supports sustainable rural development and strengthens the economic resilience of farming communities.





# ZERO HUNGER



## PROGRAM BAKTI MADANI 2025 - KENDURI RAKYAT

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) strengthens food security through targeted community and student-focused initiatives that address both immediate needs and long-term sustainability. In 2025, the Program Bakti MADANI UMPSA delivered direct food assistance through a Kenduri Rakyat at Kampung Peramu Jaya 3, Pekan (20–25 February 2025), benefiting local residents while enhancing student-community engagement. Complementing this, entrepreneurship initiatives under the Bakti MADANI and PeKASE SISWA programmes build income-generating capabilities among participants, supporting sustainable access to food and improving socio-economic resilience.



## UMPSA EXPRESS MEAL (RETORT FOOD PACK) INITIATIVE

The Express Meal initiative provides approximately 38,000 ready-to-eat meals annually to support B40 and underprivileged students, ensuring reliable access to nutrition even during emergencies such as floods. These shelf-stable meals serve as both daily support and a food security reserve to prevent financial hardship from affecting academic performance.

To ensure a dignified and efficient distribution process, the university uses the ADAB@UMPSA mobile app to issue e-Kupon Kaseh digital vouchers, which can be redeemed at campus pantries in Gambang and Pekan. This digitalised system enhances transparency, reduces stigma, and strengthens a sustainable, student-centred welfare approach.





# **GOOD HEALTH AND WELL BEING**

## UMPSA MENTAL HEALTH MONTH - “TURN AWARENESS INTO ACTION” THEME

Universiti Malaysia Pahang Al-Sultan Abdullah promoted mental health awareness and youth well-being through initiatives such as a Mental Health Awareness Campaign on 15th May 2025 and stress management workshops. These initiatives support students’ emotional resilience and help reduce stigma surrounding mental health. The efforts contribute to a healthier and more supportive campus environment, to both staff and students.



## INCLUSIVE TECHNOLOGY & WELL-BEING PROGRAMME (INCLUSIVE 2025)

Universiti Malaysia Pahang Al-Sultan Abdullah organised iNCLUSIVE 2025, on 29 May promoting inclusive technology, education, and psychosocial support for students, including those with special needs. The initiative enhances well-being through accessible learning environments, support services, and community engagement.





# QUALITY EDUCATION

## MALAYSIA EDUCATION & TVET AWARDS 2025

Universiti Malaysia Pahang Al-Sultan Abdullah continues to strengthen its reputation as a leading higher education institution in Malaysia after being awarded the Industry 4.0 Skills Leadership Award at the Malaysia Education & TVET Awards 2025. This prestigious award was presented by YB Datuk Ts. Mustapha Sakmud on August in recognition of institutions that excel in developing expertise and educational innovation aligned with 21st-century skills and the Fourth Industrial Revolution.

4 QUALITY EDUCATION



## UMPSA LEADS NATIONAL SUSTAINABILITY, 20 LECTURERS RECOGNISED AS ESG PROFESSIONALS



Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has strengthened its leadership in national sustainability by becoming the first Malaysian university to receive the international Eco-Campus Green Flag recognition from the Foundation for Environmental Education (FEE). This achievement is bolstered by the certification of 20 UMPSA lecturers as ESG Professionals and a significant rise to 40th place globally in the UI GreenMetric World University Rankings 2025. By integrating advanced engineering with green initiatives—such as solar installations, electric vehicle adoption, and a "living lab" model—the university is successfully translating its commitment to the UN Sustainable Development Goals into a resilient campus ecosystem, aiming for full carbon neutrality by 2050.



### **EMPOWERING FUTURE TALENT: UMPSA'S PTVET CERTIFIES OVER 800 STUDENTS IN INDUSTRY-STANDARD COMPETENCIES**

The Advanced TVET Centre (PTVET) achieved significant milestones in professional training and student competency, successfully certifying 502 participants through its internal training series across 28 specialized courses. This initiative complemented by the Industry Professional Training Series, where 334 final-year undergraduate students from nine different faculties completed industry-led programs. By facilitating nine professional courses conducted by certified internal instructors with industry-recognized certifications, PTVET has demonstrated a robust commitment to bridging the gap between academic learning and industrial requirements, thereby enhancing the long-term employability and technical resilience of its graduates.

### **ASEAN STUDENT MOBILITY PROGRAMME (AEF2025)**

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) successfully hosted 16 international participants from Indonesia, Vietnam, the Philippines, Cambodia, and Thailand as part of the ASEAN Student Mobility Programme (AEF2025). This strategic initiative was designed to provide students with high-value global academic experiences while fostering deeper cross-cultural understanding within the region. By focusing specifically on cutting-edge fields such as computer science and technology, the program allowed participants to broaden their scientific horizons through



collaborative learning and exposure to UMPSA's advanced technical facilities. Furthermore, the exchange serves as a practical application of SDG 4: Quality Education, as it promotes inclusive academic mobility and strengthens international partnerships between ASEAN higher education institutions.



### **PROFESSOR TURUN PADANG: EMPOWERING ORANG ASLI LEARNERS THROUGH OUTDOOR ENGLISH AND ENVIRONMENTAL EDUCATION**

UMPSA organized a high-impact corporate social responsibility (CSR) initiative titled "Words in Action: Outdoor Language Learning" at Sekolah Kebangsaan Menson in Cameron Highlands. This program was specifically designed to reduce educational inequality by providing indigenous Orang Asli students with access to specialized English language literacy training and environmental stewardship education. By utilizing an interactive outdoor pedagogy, the initiative successfully transitioned traditional classroom learning into a dynamic "living lab" environment, fostering both cognitive development and practical ecological awareness. This activity underscores UMPSA's role in promoting inclusive and equitable lifelong learning opportunities for marginalized communities, ensuring that quality education reaches beyond conventional campus boundaries.



### **12 UMPSA VOLUNTEERS STRENGTHEN GLOBAL NETWORK IN TURKIYE**

The "Program Kembara Mobiliti Antarabangsa 2025" successfully mobilized a delegation of 12 UMPSA students and staff to Fatih, Istanbul, Turkiye, as a strategic effort to advance SDG 4 (Quality Education) through global academic and cultural immersion. This initiative was designed to broaden the participants' educational horizons by integrating cross-cultural education with international community service, allowing volunteers to develop essential global citizenship skills while contributing to local social frameworks. By moving beyond traditional classroom boundaries, the program underscored UMPSA's commitment to providing inclusive, high-quality experiential learning opportunities that prepare its community to navigate and contribute to an increasingly interconnected global society.



# **GENDER EQUALITY**



## STAF

**51%** **49%**

FEMALE

MALE

**5** GENDER  
EQUALITY



## STUDENT

**49%** **51%**

FEMALE

MALE



### UMPSA: EMPOWERING YOUTH SPIRIT AND MENTAL HEALTH AWARENESS AMONG STUDENTS

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) remains committed to empowering student development grounded in holistic values and mental well-being through the organization of the UMPSA-Level National Youth Day Celebration 2025.

The programme was held in conjunction with the Launch of UMPSA Mental Health Month at the Sports Complex Hall, Gambang Campus. "The A.D.A.B. (Agile, Dynamic, Aspire and Balanced) approach serves as a comprehensive and integrated framework for student development.



UMPSA consistently emphasizes the importance of preparing students to face the realities of today's world with agility, creativity and foresight, while remaining firmly rooted in inner balance and strong values. In conjunction with the launch of Mental Health Month, themed 'Turning Awareness into Action,' the initiative aims to encourage the campus community to take proactive steps in safeguarding their mental well-being. It is urged that mental health issues should no longer be regarded as taboo, and that everyone should support one another, listen without judgment, and have the courage to seek help when needed.

## FROM SOUL TO PEAK: WOMEN'S LEADERSHIP AND MENTAL HEALTH

**NTW**  
NATIONAL TRAINING WEEK

**UNIVERSITI MALAYSIA PAHANG AL-SULTAN ABDULLAH**

**HRD CORP**  
HUMAN RESOURCE DEVELOPMENT CORPORATION

*Geminar*  
**"DARI JIWA KE PUNCAK:  
KEPIMPINAN WANITA & KESIHATAN MENTAL"**

**Penceramah Jemputan**

**PROFESOR DATIN TS. DR. MIMI SAKINAH  
BINI ABDUL MUNAIM  
PENGURUSI  
PERSATUAN WANITA (UMPSA)  
MATAHARI**

**PUAN PARIDAH BINTI MOHD ALI  
PENGARAH  
PUSAT SEJAHTERA**

**19 JUN 2025**  
8.00 pagi - 1.00 tengah hari  
Auditorium Perpustakaan  
UMPSA Gambang

MENYOKONG INISIATIF SDG:  
3 KESIHATAN DAN KESELAMATAN  
5 KEMERDEKAAN BERKUALITI

**ANJURAN PUSAT PEMBANGUNAN KELESTARIAN, UMPSA**

Kejanehanan • Teknologi • Kreativiti | **Study@UMPSA**



The Seminar “From Soul to Peak: Women’s Leadership and Mental Health” was successfully held in conjunction with National Training Week 2025, bringing together participants from various departments, agencies, and industry partners. Organised through a continued collaboration between Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) and HRD Corporation, the programme marks their second successful initiative following 2024.

The seminar highlighted the importance of empowering women as effective leaders while safeguarding their mental and emotional wellbeing. Key sessions, including “Empowering Women Leaders” and “Women’s Mental Wellbeing: The Key to a Balanced Life,” offered valuable insights, inspiration, and practical guidance for participants to thrive with confidence and resilience.



# **CLEAN WATER AND SANITATION**

## UMPSA KNOWLEDGE TRANSFER PROGRAMME BRINGS WATER TECHNOLOGY AND SUSTAINABILITY TO SM CHONG HWA KUANTAN

6 CLEAN WATER AND SANITATION



The programme kicked off with an eye-opening talk by Associate Professor Dr. Nadzirah, who explained membrane technology in a simple and engaging way. Students learned how membranes filter contaminants, why clean water matters for public health, and how water challenges impact communities globally. The second day connected water technology to real-world sustainability issues. Through SDG-themed flash cards, puzzles and matching games designed by Ts. Dr. Fatin Zafirah binti Mansur and Dr. Noor Intan Shafinas binti Mohammad. Students explored how SDG 6: Clean Water and Sanitation links to health, the environment, and community well-being.

By the end of the programme, students gained valuable insight into clean water production, sustainability and digital monitoring tools. They worked together, asked thoughtful questions and explored real engineering applications in a fun and interactive way. The collaboration between UMP and SM Chong Hwa Kuantan successfully nurtured students' curiosity, critical thinking and environmental responsibility. More than just learning about water technology, the programme inspired students to become responsible and innovative future leaders.





### **CSR SULAM: FUTURE EARTH GENERATION & CLEAN WATER HEROES @ UMPSA GAMBANG**

As part of the Service Learning Malaysia - University for Society (SULAM) initiative, a total of 193 students and 12 accompanying teachers from three primary schools and three secondary schools participated in a community program themed “Future Earth Generation & Clean Water Heroes”.

The primary schools participated as follows: Integrated Islamic School Kuantan (36 students, 2 teachers), Sekolah Jenis Kebangsaan (Chinese) Gambang (20 students, 1 teacher), Sekolah Jenis Kebangsaan (Tamil) Indera Mahkota (40 students, 2 teachers). While secondary schools as follows: Sekolah Kebangsaan Bandar 2 Paloh Hinai (34 students, 2 teachers), Sekolah Menengah Kebangsaan Bukit Rangin (33 students, 2 teachers), Sekolah Menengah Intiaz Kemaman (30 students, 3 teachers),

The interactive modules carried out throughout the program; Module 1: Greenhouse Gases (SDG 13: Climate Change Action), Module 2: Filtration System (SDG 6: Clean Water and Sanitation), Module 3: Car Prototype (SDG 11: Sustainable Cities and Communities), Module 4: Windmill Types (SDG 7: Clean and Affordable Energy) and Module 5: Lit Your World (SDG 12: Responsible Consumption and Production)



Through an interactive approach and hands-on activities, school students are exposed to environmental challenges and technological solutions that are closely related to their daily lives. This effort not only instills an interest in green science and technology among the younger generation, but also strengthens the relationship between the university and the local community towards a more sustainable future. This program successfully fosters awareness, instills an interest in green technology and strengthens the bond between the university and the community.

## DISTILWISE IoT: A SMART INDUSTRIAL WASTEWATER TREATMENT INNOVATION BY UMPSA RESEARCHERS

A research team from Universiti Malaysia Pahang Al-Sultan Abdullah developed DistilWise IoT, an innovative water treatment system integrating membrane distillation and IoT technology, capable of removing up to 99% of contaminants from industrial wastewater.

The system enables real-time remote monitoring via mobile devices, reducing reliance on manual supervision while improving operational efficiency. It has received multiple awards, including recognitions at CITREX and ITEX, highlighting its strong potential as an affordable and sustainable solution for both industrial applications and future rural water supply.



## UMPSA WATER CONSERVATION CAMPAIGN



The Water Conservation Campaign 2025 at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) aims to promote sustainable water usage among students and staff. The campaign focuses on raising awareness of water scarcity, encouraging responsible consumption, and reducing wastage across campus. Activities include educational talks, water-saving challenges, poster competitions, and the installation of water-efficient devices. Collaboration with student bodies and local communities strengthens outreach and impact. By fostering a culture of sustainability, UMPSA aspires to reduce its water footprint and support national environmental goals while nurturing environmentally responsible graduates for the future.





# **AFFORDABLE AND CLEAN ENERGY**

## 7 AFFORDABLE AND CLEAN ENERGY



### UMPSA RECEIVES 4 DIAMOND LCC2030C 2025 RECOGNITION, RECORDS NEARLY 37% GHG REDUCTION



Universiti Malaysia Pahang Al-Sultan Abdullah strengthened its sustainability performance by receiving 4 Diamond (Pekan campus) and Diamond (Gambang campus) recognition under the Low Carbon City 2030 Challenge, organised by Malaysian Green Technology and Climate Change Corporation.

The university achieved a 36.89% reduction in greenhouse gas emissions since 2019, equivalent to 5,471.77 tCO<sub>2</sub>eq, reflecting its strong commitment to low-carbon development and long-term sustainability goals.

### STRENGTHENING CLEAN ENERGY RESEARCH & INTERNATIONAL COOPERATION



Assoc. Prof. Madya Ir. Dr. Muhamad Zahim Sujod has been invited as a Keynote Speaker at the 12th International Conference on Energy, Environment and Earth Sciences (ICEEES2025) which will be held in Wuhan, China on 23–25 November 2025. This invitation is in recognition of his expertise in the field of renewable energy and active contributions to global impact research.

In his keynote, he highlighted the role of wind and solar energy in advancing clean energy, innovation, and climate action, while proposing research on advanced materials, AI- and IoT-integrated energy systems, and sustainable solutions to address global warming.



### **UMPSA SHOWCASES RESQ SOLAR EMERGENCY POWER STATION AT NATIONAL PREPAREDNESS MONTH 2025**

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) strengthened its role as an institution that supports innovative green energy efforts by introducing the ResQ Solar Emergency Power Station in conjunction with the National Preparedness Month (BKN) 2025 Celebration held at Padang FA Jerantut, Pahang.

This innovative product was created by Senior Engineer from the Centre for Property Development and Management (PPPH), Ts. Haji Mohd Nurakla Mohd Azlan; Associate Professor Ts. Dr. Amir Abdul Razak from the Faculty of Mechanical and Automotive Engineering Technology (FTKMA); and Associate Professor Dr. Abdul Syukor Abd Razak from the Faculty of Civil Engineering Technology (FTKA).

This solar technology initiative was specially developed to meet urgent needs, providing a portable system that can be used immediately without complicated installation, making it an ideal choice for emergency authorities, rescue teams, and communities in disaster-prone areas.

The ResQ Solar Emergency Power Station is an alternative electricity supply device based on solar energy, designed to replace conventional generators, especially in emergencies or during power outages. In addition, its durable design, silent operation, and zero carbon emissions make this UMPSA innovation not only responsive to crises but also supportive of the national sustainability agenda through ESG and SDG.

## UMPSA RECEIVES YPASM RESEARCH GRANT WORTH RM100,000



Senior Director of the Centre for Advanced Mobility & Aerospace, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Professor Dr Rizalman Mamat, was awarded a prestigious research grant, the Agency Fund Year 2025 amounting to RM100,000 from Yayasan Penyelidikan Antartika Sultan Mizan (YPASM).

His Royal Highness Al-Wathiqu Billah Sultan Mizan Zainal Abidin ibni Almarhum Sultan Mahmud Al-Muktafi Billah Shah, Sultan of Terengganu, who is also the Patron of Yayasan Penyelidikan Antartika Sultan Mizan, graciously consented to present the award and officiate the Launching Ceremony of the Antarctica Day 2025 Celebration.

The effort is in line with UMPSA's strategic commitment towards climate action, particularly in strengthening green technology research and sustainable solutions to address the global warming crisis.

According to Professor Dr Rizalman, with the study titled 'Sustainable Green Hydrogen in Antarctica: A Techno-Economic and Environmental Feasibility Study for Extreme Cold Climate', this research focuses on the development of clean energy solutions capable of operating in one of the most extreme environments in the world.

## GREEN FLAG INITIATIVE FOR ECO-CAMPUS UMPSA SOLAR-POWERED WAQAF INITIATIVE (SOLAR-POWERED SHELTER)

UMPSA's Eco-Campus Student Committee has actively transformed 27 of the university's wakaf huts into sustainable, solar-powered green spaces.

This initiative, which provides renewable energy for students to charge their personal devices, reflects the university's commitment to hands-on learning, sustainability, and innovation. The project has a significant impact, saving the university RM2,748.60 annually in electricity costs while generating 184.74 kWh of energy and avoiding 183.08 kg of CO<sub>2</sub> emissions





# **DECENT WORK AND ECONOMIC GROWTH**



## PROFESSIONAL WATER RESCUER CERTIFICATE COURSE

Akademi ADAB under the Department of Student Affairs and Alumni organised the Majlis Pengiktirafan Kursus Sijil Penyelamat Kolam Air Profesional on 10 April 2025 in Pekan to recognise students who successfully completed the Professional Pool Lifeguard Certification programme conducted in collaboration with Akademi Maritim Sultan Ahmad Shah and supported by Persatuan Penyelamatan Akuatik Malaysia and Persatuan Penyelamatan Akuatik Negeri Pahang. A total of six UMPSA students from various faculties successfully obtained industry-recognised certification and hands-on training in aquatic rescue, safety management, and emergency response, enhancing their employability and opening opportunities for part-time or professional engagement in the aquatic safety and recreational services sector. This initiative supports SDG 8 by strengthening graduate career readiness, expanding access to professional certification, and equipping students with practical skills that contribute to sustainable employment and safer community recreational environments..



## PEKASE SISWA PROGRAM

Universiti Malaysia Pahang Al-Sultan Abdullah, Akademi ADAB organised the PeKASE Siswa Programme (Dec 2025–Jan 2026) to strengthen leadership competencies among student leaders. The programme comprised five training series covering entrepreneurship, club and association management, financial management, event management, protocol, and social media communication, delivered through both online and physical sessions involving university experts and practitioners. This initiative enhances students' organisational, leadership, and professional skills, improving their employability and readiness for future workforce and leadership roles.



**Intensive Student Leadership Training Program**



## ASNAF BAKERY ENTREPRENEURSHIP INCUBATOR PROGRAMME



In 2025, Universiti Malaysia Pahang Al-Sultan Abdullah strengthened student entrepreneurship through the Giget Bakery Entrepreneurship Initiative, an incubator programme providing hands-on training in production, marketing, and business operations. The initiative enables students, particularly from underprivileged backgrounds, to gain real entrepreneurial experience while generating income through campus-based products, supported by academic mentors and industry practitioners. As a living learning platform, Giget Bakery enhances employability, financial literacy, and entrepreneurial skills, with student ventures such as Pastry Palace Story demonstrating its impact in developing sustainable income opportunities and business capabilities.

## INTENSIVE STUDENT LEADERSHIP TRAINING PROGRAM

At Universiti Malaysia Pahang Al-Sultan Abdullah, Akademi ADAB under the Department of Student Affairs and Alumni organised the PeKASE Siswa Programme (Intensive Student Leadership Training Programme) from December 2025 to January 2026 to strengthen leadership competencies among student leaders. The programme consisted of five training series covering key areas including entrepreneurship, club and association management, financial management, event management, protocol, and social media communication. The sessions were delivered through both online and physical training workshops involving university experts and practitioners, with participation from student representatives across faculties.



For instance, the High-Impact Leadership Programme (iFUTURE @ UMPISA) was implemented to further enhance students' leadership capabilities through exposure to industry leaders and global perspectives. The programme provided a platform for students to engage in discussions on current issues, develop communication and critical thinking skills, and strengthen their leadership competencies.

This initiative supports Sustainable Development Goal (SDG) 8: Decent Work and Economic Growth by equipping students with essential skills, improving their employability, and preparing them to contribute effectively to the workforce.



# **INDUSTRY, INNOVATION, AND INFRASTRUCTURE**



## SUSTAINABLE INFRASTRUCTURE & DIGITAL TRANSFORMATION



Electric Smart Light Rail Transit (eSLRT) project at UMPSA Pekan

Universiti Malaysia Pahang Al-Sultan Abdullah advanced resilient and sustainable infrastructure through integrated digital and physical development initiatives in 2025. The university achieved recognition as the first public university with a Certified Green Data Centre, supported by smart cooling systems and the implementation of its Smart Campus Blueprint (92% completion), including AI-driven monitoring and digital healthcare solutions. In parallel, ongoing infrastructure projects at the Pekan campus such as the Main Gateway & Information Center, Convocation Hall, and safety system upgrades enhance accessibility, operational efficiency, and campus safety, reflecting a future-ready and sustainable development approach.



Convocation Hall UMPSA. Expected completion 2026



UMPSA Pekan Campus: Sustainable Campus

## INDUSTRIAL INNOVATION AND COMMERCIALIZATION



UMPSA continues to strengthen its position in digital construction and innovation through the establishment of the Building Information Modelling (BIM) Innovation Center, launched on 26 March 2025. This initiative reinforces the university's role as a national leader in digital construction, further supported by its recognition as a Centre of Excellence (CoE) for Digital Construction under WorldSkills Malaysia.



The impact of these efforts is reflected in both academic and industry outcomes. UMPSA has generated approximately RM6.82 million through consultancy services and research grants, demonstrating strong industry engagement and knowledge transfer. In addition, the university achieved international recognition by securing a Gold medal and 'Best of Nation' award in Digital Construction at WorldSkills Taipei 2025, highlighting the strength of its talent development ecosystem and global competitiveness in BIM and digital construction.



Beyond competition success, UMPSA continues to drive innovation through intellectual property (IP) commercialisation and educational advancement. The Faculty of Civil Engineering Technology (FTKPP) recorded its highest licensing revenue over five years (2021–2025), amounting to approximately RM8.51 million, reflecting the growing value of research outputs. Concurrently, a total of 15 academic staff were awarded Teaching and Learning (PdP) grants worth RM1.55 million in 2025 to support innovative pedagogical approaches and enhance student learning experiences. Collectively, these achievements demonstrate UMPSA's commitment to advancing innovation, strengthening industry collaboration, and developing future-ready talent, in alignment with Sustainable Development Goal (SDG) 9.

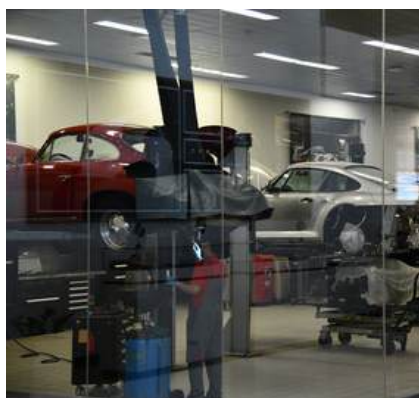
## STRATEGIC INDUSTRIAL PARTNERSHIP



Strengthening industry linkages remains a key priority for UMPSA in accelerating technology adoption and enhancing graduate readiness. Through targeted collaborations with global and national partners, the university continues to bridge academia and industry while expanding the impact of its research and innovation ecosystem. In the semiconductor sector, UMPSA formalised a collaboration with Infineon Technologies on 1 August 2025 to advance expertise in engineering and automation. This partnership supports talent development in high-technology fields and strengthens knowledge exchange aligned with industry needs.



At the international level, UMPSA partnered with Chulia Middle East Technical Services to drive the commercialisation of university innovations, including the E-Anfun odor sensor and OUDino inoculant. This initiative reflects UMPSA's growing global footprint in translating research into market-ready solutions with industry relevance.



In advancing sustainable mobility, UMPSA also established a collaboration with Malaysia Automotive, Robotics and IoT Institute (MARii) to develop a Proof of Concept (PoC) for a 3-pin Electric Vehicle (EV) charging station. This effort contributes to the development of accessible EV infrastructure and supports innovation in clean energy technologies.

Collectively, these collaborations demonstrate UMPSA's continued efforts to strengthen industry engagement, accelerate innovation adoption, and support the development of resilient and future-ready infrastructure in line with Sustainable Development Goal (SDG) 9.



# **REDUCED INEQUALITIES**



## INCLUSIVE SERVICE & INFRASTRUCTURE



Universiti Malaysia Pahang Al-Sultan Abdullah strengthened inclusivity through the establishment of the Pusat Perkhidmatan Inklusif (PPI) in April 2025, supporting vulnerable groups including persons with disabilities, B40 communities, and rural populations. The university enhanced accessibility through assistive technologies such as Ebrelle, dedicated mobility transport, and upgraded facilities, alongside the development of HATi (Hab Teknologi & Ekosistem Inklusif) as a one-stop inclusive centre. Guided by the DAMAi policy, these initiatives promote equal access, participation, and well-being, fostering a more inclusive and supportive campus environment.



Hab Teknologi dan Ekosistem Inklusif (HATi)



Inclusive Digital Hub Studio



Ebrelle at UMPSA Inclusive Center



Mobility Van

## EMPOWERING ORANG ASLI LEARNERS THROUGH OUTDOOR ENGLISH AND ENVIRONMENTAL EDUCATION



Universiti Malaysia Pahang Al-Sultan Abdullah strengthened inclusivity by expanding access and targeted support for underrepresented groups, including 14 Orang Asli students and 143 persons with disabilities (students, staff, and dependents) in 2025. Financial assistance initiatives such as Tabung We Care PETAKOM (RM10,000 to 100 students) and the Inkubator Asnaf Bakeri (RM582,066 funding for five student enterprises) further support vulnerable groups through welfare and entrepreneurship. These efforts reflect a holistic approach combining education access, financial aid, and capacity building to create a more inclusive and equitable campus environment.





# **SUSTAINABLE CITIES AND COMMUNITIES**

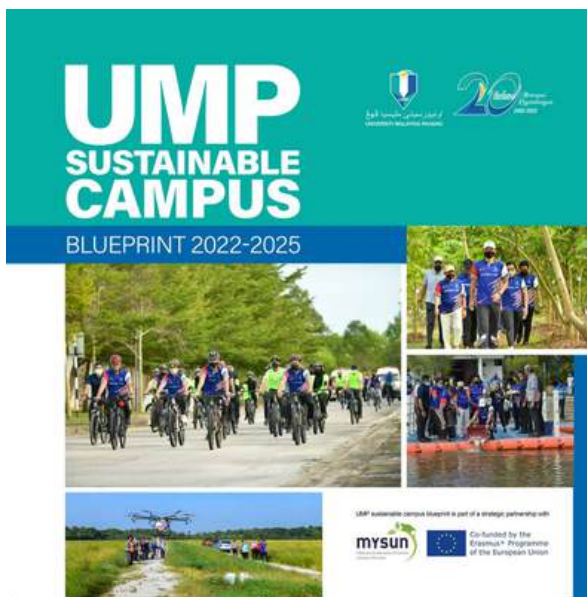


## UMPSA towards Smart Campus Implementation

### KAMPUS PINTAR 'SMART CAMPUS'



Based on the UMPSA Smart Campus Blueprint 2022-2025 document, the following is a summary of the initiatives relevant to SDG 11: Sustainable Cities and Communities for a sustainability report. The blueprint's implementation progress is 92%, exceeding the 90% target, and is built on five "Smart Pillars." Several initiatives across these pillars directly contribute to making the campus inclusive, safe, resilient, and sustainable. Smart Management & Governance (Infrastructure, Planning, and Safety). These pillars focus on strengthening overall campus management and operational efficiency through digital transformation, directly supporting resilient infrastructure and smart planning:



### Sustainable & Smart Campus Blueprint (2022–2025)

The Sustainable & Smart Campus Blueprint (2022–2025) at Universiti Malaysia Pahang Al-Sultan Abdullah is a strategic framework that guides the university's transition into a digitally integrated and environmentally sustainable campus. It outlines key initiatives such as the adoption of IoT, data-driven systems, and smart technologies to improve campus operations, alongside sustainability efforts in energy management, mobility, and resource efficiency. By integrating digital infrastructure with green practices across teaching, facilities, and administration, the blueprint aims to enhance efficiency, reduce environmental impact, and create a future-ready campus ecosystem.

## UMPSA Launches Autonomous System Ecosystem on International Stage



Universiti Malaysia Pahang Al-Sultan Abdullah launched its Autonomous System Ecosystem at the Dubai Airshow 2025, marking a major milestone in smart mobility and autonomous technology development. The initiative showcases UMPSA's advanced AV testing facilities and expertise, while opening global collaboration opportunities and positioning the university as a regional leader in autonomous systems and future mobility innovation.

## UMPSA Smart Navi: Real-Time Indoor Navigation System



Universiti Malaysia Pahang Al-Sultan Abdullah introduced UMPSA Smart Navi, a student-developed web-based navigation system designed to help users locate rooms and facilities efficiently within complex campus buildings. The system features real-time point-to-point navigation, interactive 3D mapping, and inclusive functions such as multilingual support and accessibility enhancements, contributing to a smarter, user-friendly, and sustainable campus environment.





# **RESPONSIBLE CONSUMPTION AND PRODUCTION**



## Plogging Programme @ Pantai Tg Gosong, Collaboration with Tanah Makmur Berhad, Open University, Pos Malaysia Berhad and SWCorp Malaysia

This program is organised in collaboration between Universiti Malaysia Pahang Al-Sultan Abdullah and Tanah Makmur Berhad, represents a proactive community engagement initiative that supports the principles of SDG 12: Responsible Consumption and Production through sustainable lifestyle practices and environmental responsibility. Through systematic beach clean-up activities, the programme contributed to the reduction of coastal pollution, highlighting the importance of proper waste management and the impact of irresponsible consumption patterns on marine ecosystems. Participants were also exposed to awareness messages on reducing single-use plastics, promoting recycling practices, and adopting sustainable daily habits, reinforcing long-term behavioural change. The collaboration with Tanah Makmur Berhad further strengthened the programme's impact by demonstrating effective industry–university partnerships in advancing sustainability agendas at the community level





**Plogging Programme @ Pantai Tg Gosong, Collaboration with Tanah Makmur Berhad, Open University, Pos Malaysia Berhad and SWCorp Malaysia**



The initiative successfully mobilised students, staff, and community volunteers to participate in coastal clean-up activities at Pantai Tanjung Gosong. A total of 564 kg of waste was collected within less than 500 metres of coastline, demonstrating the scale of environmental impact caused by unsustainable consumption patterns. In addition, a waste audit exercise was conducted to analyse the types and sources of waste, providing valuable insights for future waste reduction strategies and awareness campaigns.





# CLIMATE ACTION



## UMPSA receives ASEAN's first EcoCampus Green Flag recognition



Universiti Malaysia Pahang Al-Sultan Abdullah became the first university in Malaysia to receive the international Eco-Campus Green Flag recognition at the Eco-Campus International Conference (ECIC) 2025. The recognition highlights the university's strong commitment to environmental sustainability through initiatives in green campus management, energy efficiency, and community engagement. It reflects UMPASA's continuous efforts in embedding sustainable practices across campus operations and strengthening its position as a leader in sustainable higher education.

## Empowering Climate Resilience through Technology and Community Engagement



Universiti Malaysia Pahang Al-Sultan Abdullah launched the Kembara Lestari UMPSA@Kota Tinggi programme as a flagship outreach initiative to strengthen community climate resilience.

The programme integrated green technology, sustainability education, and cross-disciplinary expertise to support the Felda Lok Heng community, fostering adaptive capacity and self-sustainability.

Supported by Yayasan UMPSA and the Ministry of Higher Education, the initiative adopts an inclusive approach that prioritises vulnerable groups while promoting long-term, community-driven solutions for climate adaptation.



## UMPSA Strengthens Climate Action through Policy and Institutional Commitment (2025)

Universiti Malaysia Pahang Al-Sultan Abdullah demonstrates a comprehensive approach to climate action through policy alignment, research integration, and sustainability initiatives. The university implemented a Plastic Use Reduction Policy to minimise single-use plastics, promote reusable alternatives, and strengthen waste management practices across campus. Supported by formal SDG-related policies and alignment with Malaysia’s SDG Roadmap, UMPSA integrates climate action into both academic research and campus operations, fostering a sustainable and environmentally responsible culture.

**PLASTIC USE REDUCTION POLICY**

Guidelines and Implementation for Reducing Plastic Use at Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) - Phase 1: Use of Glass Bottles, Water Jugs, and Similar Items. This document serves as a foundational guide for compliance actions involving all Responsibility Centers (PTJ) at UMPSA. The procedures aim to provide a framework for the integrated and holistic implementation of initiatives.

**Implementation Methods**

**1.1 Water Supply**

- All Responsibility Centers (PTJ) must have their own water dispensers (e.g., Coway, Cuckoo, Reverse Osmosis dispensers) in offices, meeting rooms, and pantries to facilitate water refills.
- Ensure that the water source used is clean and safe.
- Water for the dispensers should be sourced from clean sources, not from toilet pipes, to avoid cross-contamination.
- Ensure that water dispensers are regularly maintained to prevent contamination.

**1.2 Disposal**

- Broken, cracked, or chipped glass or ceramic bottles and jugs must be disposed of carefully.
- Glass shards should be wrapped securely in paper/boxes to prevent injury risks.
- Damaged or broken bottles and jugs must be placed in recycling bins for recycling purposes.

**1.3 Safety**

- Ensure that water sources and dispensers are kept clean and undergo regular maintenance.
- Ensure that glass bottles, jugs, and similar items are also kept clean.
- Ensure that glass bottles, jugs, and similar items are tightly sealed to prevent contamination.

This policy approved by: University Sustainable Committee Meeting on 28 October 2024  
 Policy created : 2023  
 Policy reviewed : 2024

**UMPSA SMOKE-FREE POLICY**

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) aims for a smoke-free campus, and all staff and students have a right to work and study in a smoke-free environment.

Smoking under this policy shall include cigarette, pipe tobaccos and electronic cigarettes

This policy applies to staff, students and the public on campus and inside UMPSA's Official Vehicles

Breach of any provision will be subject to disciplinary actions or any appropriate actions

*"Your Health, Our Priority"*

**Tips Jimat Air**

- Elakkan daripada mandi terlalu lama
- Gunakan produk cet air bagi menjimatkan air bulanan
- Basuh baju hanya ketika muatan penuh
- Pastikan pili ditutup dengan ketat selepas digunakan bagi mengelakkan air terus menitis
- Lakukan pemeriksaan yang kerap untuk mengenal pasti sebarang kebocoran paip
- Libatkan diri dalam aktiviti penjimatan

**Jom Jimat Penggunaan Elektrik**

- Pastikan semua suis lampu ditutup apabila tidak digunakan
- Pastikan pintu dan tingkap ditutup semasa menggunakan penyaman udara
- Pastikan suhu penyaman udara diselaraskan pada 24-25°C
- Menyelenggara alat penghawa dingin secara berjadual agar lannya berfungsi secara optimum
- Tutup semua peralatan elektrik sebelum pulang ke rumah
- Gunakan pencahayaan semulajadi menerangi ruang
- Gunakan LED solar ceiling light
- Tutup semua suis komputer apabila tidak digunakan

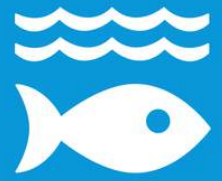


# LIFE BELOW WATER

## BIODIVERSITY CONSERVATION PROGRAM AT PANTAI CHENDOR

In observance of World Maritime Day 2025, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) partnered with Kuantan Port to execute a high-impact coastal biodiversity conservation program at Pantai Chendor, Kuantan. This initiative serves as a core component of the university's commitment to SDG 14: Life Below Water, focusing on the protection of fragile marine ecosystems and the promotion of environmental stewardship among the community. By engaging volunteers in hands-on activities such as coastal cleaning and biodiversity monitoring, the program successfully raised awareness regarding the critical importance of preserving marine habitats against pollution and climate change. This collaboration underscores UMPSA's strategic role in bridging industry and academia to drive sustainable maritime practices and ensure the long-term health of Malaysia's coastal resources.

14 LIFE  
BELOW WATER





## 12 UMPSA VOLUNTEERS STRENGTHEN GLOBAL NETWORK IN TURKIYE

The "Program Kembara Mobiliti Antarabangsa 2025" successfully mobilized a delegation of 12 UMPSA students and staff to Fatih, Istanbul, Turkiye, as a strategic effort to advance SDG 4 (Quality Education) through global academic and cultural immersion. This initiative was designed to broaden the participants' educational horizons by integrating cross-cultural education with international community service, allowing volunteers to develop essential global citizenship skills while contributing to local social frameworks. By moving beyond traditional classroom boundaries, the program underscored UMPSA's commitment to providing inclusive, high-quality experiential learning opportunities that prepare its community to navigate and contribute to an increasingly interconnected global society.



# LIFE ON LAND



## COASTAL ECOSYSTEM RESTORATION & BIODIVERSITY CONSERVATION



**Hari Antartika 2025**

In November 2025, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) reinforced its commitment to SDG 15 (Life on Land) through a high-impact environmental program held at Pantai Chendor, Cherating, in conjunction with Antarctica Day. A dedicated team of 70 volunteers, including staff and students from the Econexus Club, successfully planted 1,000 mangrove trees and released 700 baby turtles, directly contributing to the restoration of critical coastal ecosystems and the protection of endangered species. By rehabilitating mangrove forests, the initiative supports Target 15.1 (conservation of terrestrial and inland freshwater ecosystems) and Target 15.5 (halting biodiversity loss), as mangroves serve as vital carbon sinks and natural barriers against land degradation. This collaborative effort with strategic partners like the Sultan Mizan Research Foundation (YPSM) and Kuantan Port underscores UMPSA's role as a green-aspirational technical university, integrating climate action with tangible terrestrial conservation to ensure long-term ecological sustainability.

## PLASTIC WASTE REDUCTION & LAND ECOSYSTEM PROTECTION

In November 2025, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) advanced its "Green Campus" agenda by distributing 3,000 reusable water bottles to students during the 20th Convocation Expo. This initiative serves as a strategic intervention to reduce the university's reliance on single-use plastics, directly supporting SDG 15 (Life on Land) by preventing plastic waste from entering and degrading terrestrial ecosystems and soil health. By promoting a culture of reuse and integrating a comprehensive 3R (Reduce, Reuse, Recycle) framework throughout the campus, the university—led by the Centre for Sustainability Development and the Eco Nexus Club—is actively mitigating land pollution and fostering environmental stewardship among the student body to ensure the long-term preservation of the local landscape.



**Water Bottle Distribution**

## STEM ECO EXPLORERS CARNIVAL 2025



**Eco Explorers Carnival**

The STEM Eco Explorers Carnival 2025, a collaborative initiative between Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), SWCorp, and the Pahang State Forestry Department, successfully engaged 1,019 students from SK RTP Bukit Goh in experiential learning focused on environmental stewardship and green technology. Guided by the "Eco Nexus" student volunteers, the program directly advanced SDG 15 (Life on Land) and SDG 4 (Quality Education) through high-impact activities such as the "Adopt-a-Tree" (Program Pokok Angkat) project, the Greenhouse Innovation Challenge, and a DIY EcoSoap workshop utilizing recycled cooking oil. By combining STEM education with practical conservation, UMPSA has created a sustainable community hub that helps young people become proactive leaders in terrestrial preservation and circular economy practices, ensuring long-term benefits for local ecosystems.



**GREEN RAMADAN CAMPAIGN 2025**

The Green Ramadan Campaign, an extension of UMPSA's "Campus Sustainability: Every Day is No Plastic Bag Day" initiative, represents a strategic effort to mitigate land pollution by reducing single-use plastics during the fasting month. By encouraging the campus community to bring their own food containers to Ramadan bazaars, this campaign directly supports SDG 15 (Life on Land) by preventing plastic waste from entering and degrading terrestrial ecosystems and soil health. This initiative reflects the university's ongoing commitment to fostering sustainable consumption habits and protecting the environment from long-term plastic contamination, ensuring a cleaner and more resilient campus landscape.

**STOP THE WASTE & START THE CYCLE**  
*For a Greener Future*

**WORLD RECYCLING DAY**

World Recycling Day, observed annually on March 18, is a global initiative dedicated to raising awareness about the critical role of recycling in environmental sustainability. The primary objective of this observance is to educate the public on how recycling practices can effectively reduce pollution and mitigate the impacts of climate change. Furthermore, the campaign emphasizes the importance of a circular economy by reducing the over-reliance on depleting natural resources, directly supporting SDG 12 (Responsible Consumption and Production) and SDG 15 (Life on Land) through the preservation of terrestrial ecosystems and the reduction of landfill waste.



**COASTAL CONSERVATION AND COMMUNITY ENGAGEMENT**

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) demonstrated its commitment to SDG 15 (Life on Land) through the successful execution of the #PloggingPantai initiative at Tanjung Gosong. This environmental conservation effort mobilized 100 student volunteers to address coastal pollution and protect local terrestrial ecosystems from the harmful effects of plastic waste. By integrating physical activity with environmental stewardship, the program fostered a culture of volunteerism while directly contributing to the preservation of Pahang's natural coastal biodiversity.



## UNIMADANI PROJECT 2025

The UniMadani 2025 Project, monitored by the Ministry of Finance, showcases UMPSA's commitment to SDG 15 (Life on Land) by integrating advanced technological innovation with sustainable community empowerment. Through key initiatives such as modern fertigation systems at PUSPEN Gambang to promote soil-friendly agriculture, diffused aeration technology in Kampung Tebing Tinggi for eco-efficient aquaculture, and hybrid solar-heat pump drying in Kampung Marhum to champion renewable energy, the university is actively reducing land degradation and carbon footprints. By transferring these green technologies to local communities, UMPSA not only enhances food security and socio-economic resilience but also ensures the responsible management of terrestrial ecosystems and natural resources for long-term ecological balance.



## REFORESTATION AND CAMPUS GREENING (ALAM@UMPSA 2025)

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) organized a high-impact reforestation activity that reunited 20 alumni staff and retirees to contribute to the university's ecological legacy. Held at the 6.7-acre Rimba Komuniti site, participants planted 60 saplings of native forest species—including Merbau, Cengal, and Meranti Tembaga—directly advancing SDG 15 (Life on Land) by restoring terrestrial biodiversity and improving campus soil health. This program aligns with the national 100 Million Tree-Planting Campaign, reinforcing UMPSA's commitment to ensuring 50% of Malaysia's land remains forested while fostering a deep sense of environmental stewardship between past and present university leaders to combat climate change and habitat loss.



## DUCK FARMING

A collaborative project between MNR Multitech Sdn Bhd, KOBERSAMA, and UMPSA advances SDG 15 (Life on Land) by implementing sustainable livestock management practices within the Kampung Melayu Batu 6 community in Kluang. By integrating university-led research and technology into local duck farming operations, the project focuses on optimizing land use and promoting eco-friendly agricultural techniques that prevent land degradation. This partnership serves as a strategic platform for community empowerment, ensuring that local farming systems are technologically enhanced, resource-efficient, and aligned with long-term terrestrial sustainability and rural economic resilience.





# **PEACE, JUSTICE AND STRONG INSTITUTIONS**



### MAJLIS IKRAR BEBAS RASUAH UMPSA DENGAN KERJASAMA SURUHANJAYA PENCEGAHAN RASUAH MALAYSIA (SPRM) NEGERI PAHANG

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) demonstrated its unwavering commitment to institutional integrity through the 2025 Corruption-Free Pledge (IBR) held in collaboration with the Malaysian Anti-Corruption Commission (MACC). Led by Vice-Chancellor Professor Dr. Yatimah Alias, this initiative serves as a critical self-declaration mechanism for the university's leadership and staff, directly supporting Target 16.5 to substantially reduce corruption and bribery. By fostering a culture of voluntary accountability and transparency within the public sector, UMPSA ensures that its governance framework remains robust, ethical, and aligned with global standards for building effective and accountable institutions



### GARIS PANDUAN PENGENDALIAN KES GANGGUAN SEKSUAL DI UNIVERSITI MALAYSIA PAHANG AL SULTAN ABDULLAH (UMPSA)

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) continues to strengthen its governance framework in alignment with SDG 16 (Peace, Justice, and Strong Institutions) by institutionalizing comprehensive ethical standards, ranging from the 2025 Corruption-Free Pledge (IBR) in collaboration with the MACC to the formalization of new Sexual Harassment Management Guidelines. By clearly defining physical, verbal, visual, and psychological harassment and establishing structured grievance procedures consistent with Act 605 and the 2024 Student Disciplinary Rules UMPSA is actively building a safe, transparent, and accountable campus environment. These dual initiatives represent a holistic commitment to reducing bribery (Target 16.5) and ensuring a secure institutional culture (Target 16.1), providing all staff and students with a clear, legalistic roadmap for upholding integrity and professional conduct.



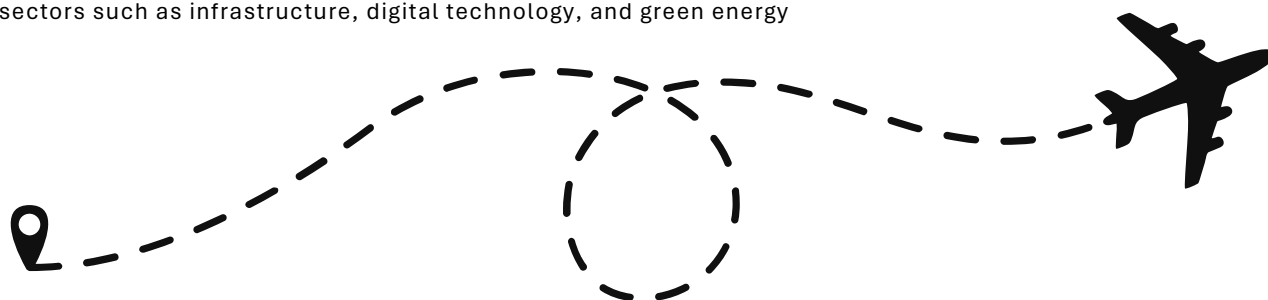


# **PARTNERSHIP FOR THE GOALS**



## CHINA-MALAYSIA REGIONAL VOCATIONAL SKILLS CENTRE

In a landmark achievement for international cooperation, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has been officially appointed by the Center for Language Education and Cooperation (CLEC), China, to establish the China-Malaysia Regional Vocational Skills Centre. As the first of its kind in Malaysia and only the second globally, this center represents a strategic evolution in bilateral relations, moving beyond traditional language instruction to a sophisticated "Chinese Language + Vocational Skills" model. This partnership directly supports the Belt and Road Initiative by aligning academic curriculum with the technical requirements of global industries, particularly in sectors such as infrastructure, digital technology, and green energy



## INTERNATIONAL ACADEMIC SYNERGY

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) reaffirmed its 15-year strategic alliance with Karlsruhe University of Applied Sciences (HKA), Germany, through the renewal of a transformative Memorandum of Understanding (MoU). This collaboration has successfully produced 269 alumni via dual-degree programmes in Mechatronics, Automotive, and Electrical Engineering, achieving a remarkable 100% graduate employability rate for the 2024 cohort. With 35% of graduates currently employed in multinational corporations and alumni securing high-impact engineering roles in Germany, the partnership continues to drive global talent mobility, joint research, and technological exchange.



## STRENGTHENING TRANSNATIONAL ACADEMIC ALLIANCES

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has expanded its global footprint through a strategic working visit to Manchester Metropolitan University (Manchester Met), United Kingdom. This initiative focuses on deepening international cooperation in academic programming, joint research, and sustainable institutional development. By partnering with a leading global institution, UMPSA will strengthen its education and research through structured international collaborations.



## STRENGTHENING TRANSNATIONAL ACADEMIC ALLIANCES

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has significantly advanced its commitment to SDG 17 (Partnerships for the Goals) through a high-level strategic mission to Imperial College London, focusing on bridging local expertise with global frontier science to address critical sustainability challenges. This collaboration facilitates a robust exchange of knowledge in clean energy and net-zero innovation, including advanced research into carbon capture, storage, and digital battery technology (DigiBAT) to meet global climate targets. By exploring the development of micro-credentials and joint research projects, the partnership strengthens international academic mobility and benchmarks UMPSA's technical standards against world-leading excellence, accelerating its trajectory toward becoming an ASEAN Advanced TVET Hub by 2030



## ADVANCING GLOBAL CIVIL ENGINEERING AND INFRASTRUCTURE

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) has further expanded its international academic network through a strategic engagement with Chongqing University (CQU), China. This collaboration focuses on high-impact sectors, including Civil Engineering, Architecture, and Built Environment, aiming to synchronize academic excellence with the rapid technological advancements in urban infrastructure. By aligning with CQU—a premier institution in China's construction and engineering landscape—UMPSA strengthens its capacity to deliver world-class technical education that supports sustainable regional development.





## UNITYINK: UMPSA EMPOWERING INTERNATIONAL COMMUNITIES ONE AT A TIME

The Centre for Modern Languages UMPSA has advanced SDG 17 by launching UNITYINK, an international community service initiative in collaboration with Hiroshima University (HU), Japan. This strategic partnership focuses on empowering the global academic community by enhancing postgraduate research and scientific writing skills. The program integrated Sustainable Development Goals directly into its curriculum, linking instructional materials and research tasks to relevant SDGs to foster a more equitable future through academic discourse



## INNOVATION AND BUILDS GLOBAL BRIDGES AT EXPO 2025 OSAKA

Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA) significantly advanced SDG 17 through its high-profile participation in Expo 2025 Osaka, Japan. During the event, the university spearheaded international education diplomacy and showcased sustainable engineering solutions, reinforcing its status as a global leader in the Eco-University movement. This strategic engagement centered on creating long-term value through high-level industrial agreements and academic research synergies that align with global carbon neutrality targets. The university's participation culminated in several high-impact outcomes, most notably a Memorandum of Agreement (MoA) with Hokoku Engineering Co. Ltd. to pioneer research in sustainable engineering and advanced bamboo-derived materials. Furthermore, a strategic collaboration with Kansai University was established to explore Dual PhD/Master programs and joint research in Artificial Intelligence (AI). These initiatives are projected to generate in research investment and talent development opportunities through business matching with Japanese firms, while the Vice-Chancellor's leadership in global sustainability podcasts positioned UMPSA as a primary voice in the international transition toward Net Zero.



SUSTAINABILITY DEVELOPMENT CENTER, UMPA