



FEB UNDIP and Universiti Teknologi PETRONAS (UTP) Malaysia Implement Sustainable Energy Initiatives in the Coastal Village of Timbulsloko

The Department of Economics and Development Studies (IESP), Faculty of Economics and Business (FEB), Universitas Diponegoro (UNDIP), in collaboration with Universiti Teknologi PETRONAS (UTP) Malaysia, conducted an International Community Service program in Timbulsloko Village, Demak Regency, Central Java. The activity formed part of an international collaboration to promote sustainable development in coastal communities facing social, economic, and environmental challenges caused by climate change and coastal abrasion.

The program was part of the International Summer Course in Energy Economics and Economic Development for Coastal Transformation previously held at FEB UNDIP. Through this activity, students from both universities gained direct exposure to the realities of coastal communities, including limited energy access, environmental changes, and economic sustainability challenges faced by residents.

Initiated by Dr. Jaka Aminata together with Prof. Akhmad Syakir Kurnia, the program was designed not only as an academic learning platform but also as a way to strengthen students' social awareness. "Through this activity, students from both institutions are invited to directly understand the social, economic, and environmental conditions of coastal communities affected by changes in coastal areas. One of the issues we found was limited electric lighting in several community activity points," said Dr. Jaka Aminata.



As a practical implementation of sustainable energy solutions, the team installed solar-powered street lights at several strategic points used by local residents. The lighting is expected to improve community safety and support nighttime activities while also demonstrating the use of renewable and environmentally friendly energy in coastal areas.

Through this International Community Service program, UNDIP reaffirmed its commitment to strengthening impactful international collaboration. By combining education, research, and community service, the initiative supports coastal community resilience and green energy transformation in Indonesia, in line with the spirit of Noble and Valuable UNDIP.



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UNDIP Invited by BNPB to Demonstrate “Robot” Cockroach, Initiates Collaboration in Disaster Victim Response

Universitas Diponegoro (UNDIP) has once again demonstrated its commitment to impactful innovation by developing ROACH-DETECT, a cyborg insect technology designed to assist search-and-rescue (SAR) operations in disaster-affected areas. Developed by the Cyborg Insect Team from the Faculty of Engineering, the innovation gained international recognition after winning the Gold Award and Special Award at the Malaysia Technology Expo (MTE), which led to an invitation from Indonesia’s National Disaster Management Agency (BNPB) to demonstrate the technology.

ROACH-DETECT combines biological adaptability with advanced robotics and artificial intelligence by utilizing the Madagascar Hissing Cockroach equipped with lightweight electronic devices, sensors, micro-cameras, and communication systems. The technology enables the insect to navigate through narrow spaces within collapsed structures, detect human body temperature patterns, and transmit real-time information to rescue teams. During the demonstration, UNDIP innovator Mochammad Ariyanto, S.T., M.T., Ph.D., showcased the system’s ability to operate in challenging environments, including dark, uneven, and debris-filled disaster zones.



UNDIP Rector Prof. Dr. Suharnomo, S.E., M.Si. emphasized the significance of the innovation in strengthening disaster response capabilities. “The development of the robot cockroach aims to improve the effectiveness of search and rescue operations in locating survivors. This technology is expected to become an innovative solution for disaster management in Indonesia,” he stated. Designed to support rescue efforts during the critical first 72 hours after a disaster, ROACH-DETECT offers a practical solution for reaching areas inaccessible to humans, conventional robots, or SAR dogs.

The innovation also received positive appreciation from BNPB Head Lt. Gen. TNI Dr. Suharyanto, S.Sos., M.M., who highlighted the importance of collaboration between universities and government institutions in enhancing national disaster preparedness. Moving forward, UNDIP will continue to develop adaptive cyborg insect technology and expand partnerships with stakeholders to ensure that research-driven innovations deliver tangible benefits for public safety and humanitarian response efforts.



UNDIP Hosts International UNESCO Workshop: Promoting Transparent, Accountable, and Human Rights-Based Digital Platform Governance



The Faculty of Fisheries and Marine Sciences (FPIK) of Universitas Diponegoro (UNDIP) has expanded its international industry network through the signing of a Memorandum of Agreement (MoA) with PT Haida Agriculture Indonesia on April 24, 2026, in Guangzhou, China. The partnership represents a strategic effort to strengthen the implementation of the Tridharma of Higher Education by fostering collaboration between academia and industry in fisheries, aquaculture, and marine sciences.

Over the next five years, the collaboration will encompass joint research initiatives, seminars, visiting lecturer programs, student internships, practitioner involvement in academic activities, and capacity-building programs. By establishing this strategic partnership with PT Haida Agriculture Indonesia, FPIK UNDIP aims to enhance the quality of education, research, and community service while supporting the sustainable development of Indonesia's fisheries and aquaculture sectors.



The agreement was signed by Prof. Agus Trianto, S.T., M.Sc., Ph.D., Dean of FPIK UNDIP, and Zhang Zheng, General Manager of Shrimp Feed for Eastern Indonesia at PT Haida Agriculture Indonesia. Through this collaboration, both institutions aim to leverage their respective expertise and resources to support education, research, innovation, and human resource development. The partnership covers a broad range of academic programs at the undergraduate, master's, and doctoral levels within FPIK UNDIP.

Prof. Agus Trianto emphasized that the collaboration reflects FPIK UNDIP's commitment to strengthening links between higher education and industry. He noted that the partnership is expected to create greater opportunities for students and academics to engage in research, internships, and practical learning experiences that align with current industry needs and global developments in fisheries and marine sciences.



(Source: undip.ac.id)



UNDIP Hosts International UNESCO Workshop: Promoting Transparent, Accountable, and Human Rights-Based Digital Platform Governance

Universitas Diponegoro (UNDIP) hosted the international UNESCO workshop titled "Internet for Trust Digital Platform Governance Regional Workshop: Capacity Building for Regulators, Digital Platforms, and Civil Society in Southeast Asia" from May 6–8, 2026, in Semarang. Organized in collaboration with AMIC, CivicTech Lab, the National University of Singapore, and supported by KITLV Leiden, the workshop brought together academics, policymakers, civil society representatives, and digital platform stakeholders to advance accountable and human rights-based governance of digital platforms across Southeast Asia.

The workshop focused on UNESCO's Guidelines for the Governance of Digital Platforms, which aim to promote transparency, accountability, and the protection of digital rights while addressing challenges such as disinformation, social polarization, and algorithmic governance. UNDIP Rector Prof. Dr. Suharnomo, S.E., M.Si. emphasized the significance of the initiative, stating, "UNDIP is very proud to host this international workshop. We hope the networks, ideas, and collaborations established in this workshop will continue beyond this forum and strengthen digital governance across the region—from Semarang for Southeast Asia."



As part of the Internet for Trust Global Knowledge Network, the event also marked the culmination of a regional effort to formulate practical digital platform governance guidelines. Wijayanto, S.I.P., M.Si., Ph.D., UNDIP Vice Rector for Research, Innovation, Collaboration, and Public Communication, explained, "A practical governance guideline is expected to be formulated and widely implemented across Southeast Asia. Indonesia,

as the largest country in ASEAN and the region's largest internet user base, should naturally take a leadership role in this initiative." Discussions highlighted issues such as platform accountability, data protection, AI governance, online safety, and the protection of vulnerable groups in digital spaces.

UNESCO representative Ana Lomtadze underscored the importance of multi-stakeholder collaboration, noting that protecting freedom of expression, addressing disinformation, ensuring transparency, and safeguarding digital rights are shared responsibilities. Through policy dialogue involving government officials, legislators, digital platforms, academics, and civil society leaders, the workshop reinforced the need for evidence-based governance frameworks that uphold democracy and human rights. The event further strengthened UNDIP's role as a regional hub for research, policy development, and international collaboration in shaping the future of digital governance in Southeast Asia.



(Source: undip.ac.id)



UNDIP and NTU Singapore Discuss Talent Development and International Scholarship Opportunities for Students

Universitas Diponegoro (UNDIP) welcomed a delegation from Nanyang Technological University (NTU Singapore) during the NTU–UNDIP Talent Development Discussion 2026 held on May 8, 2026. The meeting served as an important platform for both institutions to explore opportunities for strengthening international collaboration in talent development, postgraduate education, and the advancement of globally competitive human resources.

The NTU delegation, led by Maliki Osman, Senior Advisor (ASEAN and Flagship Programmes) at the NTU President's Office, and Lydia Helena Wong, Director of Global Alliance of Industries @ NTU (GAIN), introduced the Indonesia–NTU Singapore TalEnt Programme (INSTEP). The initiative offers fully funded master's degree scholarships for 200 Indonesian undergraduate graduates, jointly supported by NTU Singapore and LPDP, with a focus on strategic fields such as food security, energy, sustainability, digital transformation, and national resilience.

UNDIP Rector Prof. Dr. Suharnomo, S.E., M.Si. welcomed the initiative and emphasized the importance of expanding international partnerships to enhance the quality of Indonesian human resources. He noted that collaboration with world-class institutions is a crucial step toward preparing future leaders who can adapt to global challenges and contribute meaningfully to society.

In addition to postgraduate study opportunities, both institutions discussed broader academic cooperation, including human resource development programs, international activities, and outreach initiatives to introduce the INSTEP scholarship program to UNDIP students. These efforts are expected to provide greater access to global educational opportunities while strengthening academic and professional networks between Indonesia and Singapore.



The discussion concluded in a productive and collaborative atmosphere, marking an important step toward deeper institutional ties between UNDIP and NTU Singapore. Through strategic international partnerships such as this, UNDIP continues to reinforce its commitment to developing globally competitive talent, expanding international engagement, and advancing its vision as a World-Class University while upholding the spirit of "Noble and Valuable UNDIP."



(Source: undip.ac.id)



UNDIP's Faculty of Medicine and Tianjin Medical University Strengthen Collaboration to Advance Medical Innovation

Universitas Diponegoro (UNDIP) has reinforced its commitment to internationalizing medical education through a strategic partnership with Tianjin Medical University (TMU), China. On May 9, 2026, the two institutions officially signed a Memorandum of Understanding (MoU), marking a significant milestone in expanding collaboration in medical education, research, and academic exchange. The agreement was signed during the International Symposium on Medical Education held at TMU under the theme "AI Empowering International Education: Opportunities and Transformations in Global Student Mobility."

Representing UNDIP Rector Prof. Dr. Suharnomo, S.E., M.Si., the Dean of the Faculty of Medicine, Prof. Dr. Yan Wisnu Prajoko, M.Kes., Sp.B., Subsp.Onk(k), led the UNDIP delegation alongside faculty representatives and researchers. Their participation reflected UNDIP's broader mission to transform medical education through innovation, global engagement, and the integration of emerging technologies.

As one of the symposium's keynote speakers, Prof. Yan delivered a presentation entitled "Transforming Medical Education in Indonesia: Integrating Artificial Intelligence, Global Mobility, and Oncology Training – Insights from Universitas Diponegoro." He highlighted the potential of artificial intelligence to address disparities in medical education and accelerate systemic transformation. "The integration of artificial intelligence, global mobility, and advanced oncology training can become a catalyst for improving the quality and accessibility of medical education, particularly in developing countries," he emphasized.

The MoU establishes a framework for strategic cooperation in several key areas, including student exchange programs, joint research initiatives, scientific publications, and the development of educational programs for general practitioners, specialists, and subspecialists.



The partnership is expected to create broader opportunities for students and academics to engage in international collaboration while strengthening institutional research capacity and academic excellence.

Through this collaboration with one of China's leading medical universities, UNDIP continues to expand its global academic network and enhance the quality of healthcare education in Indonesia. The partnership reflects the university's commitment to producing highly competent healthcare professionals with international perspectives, fostering innovation in medical education, and contributing to advancements in global health in line with the spirit of "Noble and Valuable UNDIP."



(Source: undip.ac.id)



UNDIP Supports Solutions for Mobility and Climate Change Challenges Along Java's Northern Coast through International Discussion in Washington, D.C.

As part of its commitment to becoming a World-Class University, Universitas Diponegoro (UNDIP) continues to actively participate in international academic forums that address pressing global challenges. One recent milestone was the participation of Prof. Dr.-Ing. Wiwandari Handayani from the Department of Urban and Regional Planning, Faculty of Engineering, UNDIP, in the international workshop "Rebuild or Retreat: Interdisciplinary Perspectives on Migration and Mobility in the Global North."

The workshop, organized by the German Historical Institute (GHI), was held on April 23–24, 2026, in Washington, D.C., United States. The event brought together academics and practitioners from around the world to discuss issues related to migration, mobility, and immobility in the context of environmental change and climate-related challenges. Prof. Wiwandari was invited to contribute insights from Indonesia and engage in interdisciplinary discussions on these increasingly important global issues.

During her presentation, Prof. Wiwandari highlighted the impacts of climate change and environmental degradation on communities living along the northern coast of Java, particularly in Jakarta, Pekalongan, Semarang, and Demak. Her discussion examined how communities respond to environmental pressures, with some choosing to migrate to safer areas while others remain despite facing recurring climate-related disasters and limited economic resources.

Addressing the workshop participants, Prof. Dr.-Ing. Wiwandari Handayani emphasized the importance of collaborative approaches in tackling complex global challenges. She stated, "Innovation and collaboration among educational institutions, across disciplines and across countries, are key to delivering real solutions to global issues such as climate change, particularly for communities facing the difficult choice of whether to relocate or remain in place."



UNDIP's participation in this international forum reflects the university's growing contribution to global academic discourse on climate adaptation, migration, and environmental resilience. The engagement is expected to strengthen international research networks and foster future collaborations while supporting the achievement of the Sustainable Development Goals (SDGs), particularly SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals). Through initiatives like this, UNDIP continues to demonstrate its commitment to generating knowledge and collaborative solutions for global challenges.



(Source: undip.ac.id)



The Department of Urban and Regional Planning (DPWK), Faculty of Engineering, Universitas Diponegoro (UNDIP), Strengthens International Collaboration with the University of Pennsylvania to Advance Climate Resilience and Urban Sustainability

The Department of Urban and Regional Planning (DPWK), Faculty of Engineering, Universitas Diponegoro (UNDIP), continues to expand its international partnerships to support research and innovation addressing climate change and environmental challenges. As part of this commitment, Prof. Dr.-Ing. Wiwandari Handayani participated in a series of academic activities at the University of Pennsylvania (UPenn), one of the world's leading universities, ranked 15th in the QS World University Rankings 2026.

During her visit, Prof. Wiwandari delivered a guest lecture in the course "Water Worlds: Cultural Responses to Catastrophic Flooding and Sea Level Rise," taught by Prof. Simon Richter. She also served as a guest speaker at a seminar hosted by Perry World House, presenting on "When Urbanization Meets Climate Risk: SDG Challenges along the Pantura Java Coast – Indonesia." The discussion focused on climate resilience and sustainable development challenges affecting coastal communities along the northern coast of Java.

As part of the ongoing collaboration between UNDIP and UPenn, Prof. Wiwandari presented UNDIP's involvement in the Global Center of Spatial Methods for Urban Sustainability (SMUS) network, particularly through the Science Communication Project that explores the concept of ec(h)otone in the Semarang–Demak coastal region. The initiative offers an innovative approach to understanding the complex interactions between communities and their changing coastal environments while fostering engagement with students and researchers from the Weitzman School of Design and the Water Center at UPenn.

Highlighting the importance of global partnerships, Prof. Dr.-Ing. Wiwandari Handayani stated, "International collaboration across institutions is key to driving innovation and addressing global challenges, including climate change. Through these partnerships, we can contribute to delivering concrete and sustainable solutions for future urban challenges." Her participation provided valuable opportunities for knowledge exchange and strengthened research cooperation between the two institutions.



This academic engagement reflects UNDIP's growing contribution to international discussions on climate adaptation, urban resilience, and sustainable development. The collaboration is expected to further strengthen research networks and support the achievement of the Sustainable Development Goals (SDGs), particularly SDG 11 (Sustainable Cities and Communities), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals). Through initiatives such as this, UNDIP continues to reinforce its role as a globally connected university committed to creating meaningful solutions for contemporary environmental challenges.



(Source: undip.ac.id)



International Student Fun Match Football 2026 Strengthens Brotherhood Among International Students of UNDIP and UNS

Universitas Diponegoro (UNDIP) successfully hosted the International Student Fun Match Football 2026, bringing together international students from UNDIP and Universitas Sebelas Maret (UNS) Surakarta who are recipients of Indonesian Government scholarship programs. Held at the UNDIP Stadium in Tembalang, Semarang, the event served as a platform to strengthen friendships, expand international networks, and encourage cross-cultural interaction among students from various countries in Asia and Africa.

According to Pulung Widhi Hari Hananto, Deputy Director for Global Partnerships at UNDIP's Directorate of Reputation, Partnerships, and Global Connectivity, the participating students were scholarship recipients from several developing countries. "The international students we invited to the Stadium of Universitas Diponegoro are recipients of advanced study scholarships from various developing countries in Asia and Africa," he stated. He added that these scholarship programs not only contribute to human resource development but also promote Indonesian culture and foster international friendship.

The event attracted international students from 16 countries, including Zambia, Nigeria, Sierra Leone, India, Pakistan, and several others. Abdul Rohman, Manager of Global Reputation and Partnerships at UNDIP, emphasized the significance of the activity in building solidarity and sportsmanship among students studying in Indonesia. "Especially from African and South Asian countries such as Zambia, Nigeria, Sierra Leone, India, Pakistan, and many others," he explained.



The friendly match was conducted in a warm and enthusiastic atmosphere, highlighting the values of friendship, fair play, and mutual respect. The UNDIP international student team delivered an impressive performance, securing a 5-0 victory over the UNS international student team. Beyond the competition itself, the event created opportunities for students from diverse cultural backgrounds to interact and build meaningful connections.

One participant, Saleh Nasamou Wantigli from Libya, expressed his appreciation for the initiative, noting that it provided a valuable opportunity to stay active while forming friendships with fellow international students. Through activities such as the International Student Fun Match Football 2026, UNDIP continues to strengthen its commitment to creating an inclusive campus environment, advancing the internationalization of higher education, and fostering friendship among nations through both academic and non-academic engagement.

(Source: undip.ac.id)



The Faculty of Humanities (FIB) at Universitas Diponegoro (UNDIP) will host the 4th International Conference on Culture and Sustainable Development (ICOCAS) 2026 as part of its anniversary celebration. Carrying the theme "Rethinking Environmental Sustainability in Indonesia: Environmental Justice and Community Resilience," the conference highlights the important role of the humanities in addressing environmental sustainability, ecological justice, and community resilience amid increasingly complex global challenges. Scheduled to take place in Semarang on August 4–5, 2026, the event will bring together academics, practitioners, and cultural observers from various countries to exchange ideas and foster international collaboration.

ICOCAS 2026 serves as a platform for interdisciplinary dialogue on contemporary environmental and social issues. Through international seminars and discussion forums, participants will have the opportunity to present their latest research findings, expand academic networks, and explore multidisciplinary approaches to sustainable development. The conference is expected to encourage meaningful collaborations that contribute to innovative and inclusive solutions for global environmental and societal challenges.

By promoting inspiring discussions and global engagement, ICOCAS 2026 aims to strengthen the contribution of cultural studies and the humanities to sustainable development at both national and international levels.

4th ICOCAS 2026: Reexamining Environmental Sustainability Through the Humanities Perspective



The conference also reaffirms UNDIP's commitment to advancing academic excellence, international partnerships, and knowledge exchange while creating a collaborative forum that supports a more sustainable and resilient future.

(Source: undip.ac.id)



Voca Signora Team from UNDIP Vocational School Wins Gold Medal and Thailand's Best International Invention and Innovation Award at WYIE 2026 Malaysia



The Vocational School of Universitas Diponegoro (UNDIP) achieved another remarkable milestone on the international stage through the success of the Voca Signora Team from the Mechanical Design Engineering Study Program. Competing at the World Young Inventors Exhibition (WYIE) 2026 in Kuala Lumpur, Malaysia, the team won both a Gold Medal and the prestigious Best International Invention and Innovation Award from the National Research Council of Thailand (NRCT). The competition, part of the International Invention, Innovation and Technology Exhibition (ITEX), featured more than 1,000 innovations from 17 countries, highlighting the global significance of the achievement.

Supervised by Dr. Sri Utami Handayani, S.T., M.T., the team developed Voca Signora, an Artificial Intelligence (AI)-based communication system designed to assist deaf and speech-impaired individuals. The technology translates sign language into speech and converts speech into text in real time, enabling more inclusive and accessible communication. Team leader Marska Fakhri Mulyana explained, "In this latest development, we focused on improving sign language recognition accuracy and system responsiveness so users can communicate more comfortably and effectively." The innovation represents the third generation of the system, with continuous improvements in accuracy, responsiveness, and user experience.

The dual awards demonstrate the ability of UNDIP Vocational School students to develop globally competitive technologies that create meaningful social impact. Reflecting on the achievement, Marska stated, "We hope this innovation can continue to be developed and eventually provide real benefits to the wider community." The success was supported by UNDIP's World Class University Program and industry partners, including PT Pupuk Kalimantan Timur, PT Jasamarga, PT Semen Gresik Rembang, and IKA PAT FNGT D3 D4 Teknik Mesin Vokasi UNDIP, whose contributions helped advance the innovation and facilitate the team's participation at WYIE 2026.

(Source: undip.ac.id)





FPIK UNDIP Strengthens Student and Alumni Competencies through International Internship and Career Opportunities

The Faculty of Fisheries and Marine Sciences (FPIK) at Universitas Diponegoro (UNDIP) continues to demonstrate its commitment to producing highly competitive graduates with global readiness through international internship and career development programs. Since 2023, FPIK students have participated in internships across various fisheries and marine industries in Japan, gaining valuable international work experience while enhancing their cultural awareness, foreign language proficiency, and professional skills in a global working environment.

On April 19, 2026, FPIK UNDIP dispatched 28 students to Japan as part of its latest international internship program. Thirteen students were assigned to Ako City, while fifteen others began placements in Esashi, with an additional eleven students from the Fisheries Product Technology Program scheduled to join soon. The internships cover a wide range of sectors, including aquaculture, seafood processing, hatchery operations, and modern aquaculture facility management, allowing students to work directly with internationally recognized industry partners in Japan.

Beyond student mobility, FPIK UNDIP is also expanding international career opportunities for its alumni. Currently, nine alumni are undergoing training and preparation for employment in South Korean aquaculture companies through the E-7-3 Skilled Worker Visa scheme. The program includes language training, technical competency development, cultural orientation, and rigorous selection processes such as comprehensive medical examinations and psychological assessments to ensure participants are fully prepared for international employment.



Dean of FPIK UNDIP, Prof. Agus Trianto, S.T., M.Sc., Ph.D., emphasized the faculty's dedication to preparing globally competitive human resources. "FPIK UNDIP not only focuses on academic education but also ensures that students and alumni have access to global experiences and real international career opportunities. This reflects our commitment to producing adaptive, professional graduates who are ready to face the challenges of the global workforce," he stated. Through these initiatives, FPIK UNDIP continues to strengthen its role as a globally connected institution while creating broader opportunities for the future success of its students and alumni.



(Source: undip.ac.id)

