



**UM**

The University of Mindanao



UMERIAO

# SUSTAINABILITY REPORT

UNIVERSITY OF MINDANAO

2025

# PREFACE

In 2015, the United Nations adopted the 2030 Agenda for Sustainable Development, featuring 17 Sustainable Development Goals (SDGs) as a universal call to action to end poverty, protect the planet, and ensure peace and prosperity for all. Achieving these ambitious goals requires the active participation of all sectors of society, including higher education institutions, which play a vital role in generating knowledge, fostering innovation, and shaping future leaders geared to face global challenges. The University of Mindanao, guided by its institutional tagline “First in Leadership Education,” embraces its responsibility to contribute meaningfully to this global agenda. As a committed academic institution, UM integrates sustainability principles across its teaching, research, and community engagement platforms. Leadership at UM is not confined to academic excellence; it extends to social innovation and transformative action that uplifts communities.

This report presents initiatives that solidify UM’s proactive contributions to the SDGs. These initiatives, developed through collaboration with stakeholders and local communities, reflect the university’s dedication to inclusive development and responsible leadership. The projects span a diverse range of fields, from literacy programs in grassroots areas to sustainable agriculture to institution-wide innovations in renewable energy, economic development, and governance. By documenting these best practices, UM not only reaffirms its position as a leader in higher education but also offers replicable models that can inspire other institutions and sectors. In doing so, the university reinforces the role of academic institutions as agents of sustainable change, locally, nationally, and globally.

# SUSTAINABILITY PLEDGE

## *Rooted in Mindanao, Driven by Sustainability*

At the University of Mindanao, sustainability is more than a vision—it is part of how we educate, innovate, and serve. As the largest private, non-sectarian university in Mindanao, UM is committed to creating sustainable impact through quality, affordable, and accessible education for all. We pledge to build a university that integrates sustainability into instruction, research, extension, production, and campus operations.

Guided by excellence, innovation, integrity, and teamwork, we continuously strengthen programs and practices that promote environmental stewardship, climate resilience, responsible resource management, biodiversity conservation, and community empowerment. UM remains committed to developing research-driven, community-centered solutions that address the needs of Mindanao and the global community.

Through strong partnerships, sustainable campus initiatives, and transformative learning experiences, we aim to produce future-ready graduates who will lead positive change with competence, compassion, and responsibility. As one UM community, we move forward with a shared commitment to create greener campuses, resilient communities, and lasting sustainable impact for present and future generations.

## COMMITMENT TO SUSTAINABLE DEVELOPMENT GOALS



As President of the University of Mindanao, I reaffirm our steadfast commitment to advancing the Sustainable Development Goals (SDGs) in alignment with the University's vision of becoming a leading globally engaged university creating sustainable impact in society and its mission of providing a dynamic learning environment through the highest standards of instruction, research, extension, and production while democratizing access to quality education.

Guided by our core values of Excellence, Honesty and Integrity, Innovation, and Teamwork, the University of Mindanao will continue to integrate sustainability into its academic programs, research initiatives, community engagement activities, and campus operations. We are committed to developing graduates who are environmentally responsible, socially responsive, and globally competent, capable of addressing the complex challenges facing our communities and the world.

Through collaborative partnerships, transformative education, and evidence-based solutions, we will strengthen our contributions to environmental protection, climate action, sustainable resource management, social inclusion, and community development. By fostering a culture of sustainability and innovation, the University of Mindanao remains dedicated to creating lasting and meaningful impacts that support the achievement of the SDGs and improve the quality of life for present and future generations.

**DR. GUILLERMO P. TORRES, JR.**  
UM, President



# 1 NO POVERTY

The University of Mindanao is committed to fostering a community that ensures everyone can access education regardless of financial circumstances. As part of its mission to eradicate poverty, UM continually implements inclusive programs that empower underprivileged students through quality education. One of the university's strongest initiatives is its extensive scholarship offerings, which provide financial assistance to deserving students from low-income families.

- University of Mindanao's Anti-Poverty Programs
- UM's Student Support Services
- Community Anti-Poverty Programs





# Unshackle: Breaking The Chains of Poverty Through Any Means Necessary

Poverty is a globally recognized issue, yet not enough effort has been made to completely eradicate it. It remains the root cause of other widely acknowledged problems, such as global hunger, inadequate healthcare access, quality education deficits, limited clean water, and poor sanitation, among others.



To help bridge the gap between students from low-income families and their access to basic necessities, the University of Mindanao (UM) recognizes its significant responsibility as a committed and active participant in pursuing the United Nations' Sustainable Development Goal (SDG) 1: No Poverty.

With its open admission policy and a remarkable history of achievements, the University of Mindanao attracts thousands of students from diverse socioeconomic backgrounds and cultural groups each enrollment period. For the first semester of the academic year 2024-2025, 30,602 students were registered. Of these, 11% are members of various indigenous tribes, while 5% come from impoverished backgrounds.

## Financial Aids

To reduce the financial burden many students may encounter, UM offers a variety of scholarship programs. These are not only for students who excel academically or in non-academic fields but also for financially disadvantaged students who deserve support. Scholarships such as the Student Training Assistance Program (STAP) and the Indigent Assistance Program provide essential opportunities for students within the 16% of enrolled students who come from low-income backgrounds.

As stated in the student handbook's Section 5.2, the University of Mindanao ensures the upholding of students' rights to an affordable education.

## FIVE EASY STEPS ON HOW TO APPLY/RENEW YOUR SCHOLARSHIP THRU STUDENT PORTAL

FIRST SEMESTER S.Y. 2025-2026

FOR NEW AND ON-GOING/RENEWAL APPLICATION

## University Anti-Poverty Programs

The university's open admission policy facilitates access for students from diverse financial, social, and cultural backgrounds. Through the financial aid provided, students from low-income groups can more readily complete their college programs and graduate.

UM deeply values its students' health and well-being. According to Section 5.6.1 of the student handbook, the university provides adequate healthcare facilities, giving students easy access to free medical, dental, and counseling services. Additionally, a campus service vehicle offers free transportation within the campus premises.



# UMPS Introduces STA-CARE Program to Aid Financially Challenged Students

The University of Mindanao Professional Schools (UMPS) has introduced the STA-CARE Program (UMPS-SCP) to support financially challenged but academically deserving students pursuing tertiary education.

The program was developed in response to the increasing number of students struggling with daily expenses such as transportation, lodging, books, and other school-related costs, despite the existing Student Training Assistance Program (STAP). Through the principles of Compassion, Action, Response, and Empathy (CARE), UMPS coordinators, faculty, and staff aim to provide financial and moral assistance to help students continue and complete their studies.



Beyond easing financial burdens, the program promotes a culture of social responsibility and bayanihan within the UM community. It also reinforces UMPS's commitment to the United Nations Sustainable Development Goals, particularly SDG 2 (Zero Hunger) by addressing students' basic needs, SDG 3 (Good Health and Well-being) by reducing financial stress that affects mental and physical health, and SDG 10 (Reduced Inequalities) by ensuring equal access to education for all.

Beyond easing financial burdens, the program promotes a culture of social responsibility and bayanihan within the UM community. It also reinforces UMPS's commitment to the United Nations Sustainable Development Goals, particularly SDG 2 (Zero Hunger) by addressing students' basic needs, SDG 3 (Good Health and Well-being) by reducing financial stress that affects mental and physical health, and SDG 10 (Reduced Inequalities) by ensuring equal access to education for all.





# University of Mindanao Internal Scholarship Programs



1,730

students were granted Internal Scholarships by the University of Mindanao for the **First Semester of Academic Year 2024–2025.**



1,492

students were provided with Internal Scholarships by the University of Mindanao for the **Second Semester of Academic Year 2024–2025.**



397

students were granted Internal Scholarships by the University of Mindanao for the **Summer of the Academic Year 2024–2025.**



# University of Mindanao External Scholarship Programs



**2,611**

students were granted External Scholarships by the University of Mindanao for the First Semester of the Academic Year 2024–2025.



**927**

students were granted External Scholarships by the University of Mindanao for the Second Semester of the Academic Year 2024–2025.



**58**

students were granted External Scholarships by the University of Mindanao for the Summer of the Academic Year 2024–2025.



# EmpowerHER 2.0: Angat Pangkabuhayan - A Best Practice for Building Women's Capacity Community Anti-Poverty Programs

EmpowerHER 2.0: Angat Pangkabuhayan has transformed the lives of 50 low-income women from Joesil Village 3, Barangay Cagangohan, Panabo City by providing practical, sustainable livelihood training and support for microenterprise development. The initiative empowers women to take charge of their economic futures, promoting financial independence and building inclusive local economies where women lead and thrive.



Focused on peri-urban coastal communities, the project combines hands-on training, access to seed capital, enterprise hubs, and mentorship. Its flagship livelihood initiative—dishwashing liquid production—equipped participants with technical skills in production, basic costing, packaging, and marketing.

This low-cost, home-based enterprise became a replicable model, helping women generate income directly from their homes or shared community spaces. Through EmpowerHER 2.0, beneficiaries have diversified into other microenterprises, such as small-scale retail, leading to improved household income, food security, and financial resilience. The project's impact extends beyond economics—it boosts self-esteem, decision-making power, and the social standing of women within their families and communities.

To sustain and scale the initiative, the project also partnered with Sabon Depo Panabo Branch to provide specialized training in bottling and packaging, further enhancing the women's technical capabilities and market readiness. The creation of shared production and mentoring spaces has strengthened community support networks and fostered long-term economic collaboration among participants.

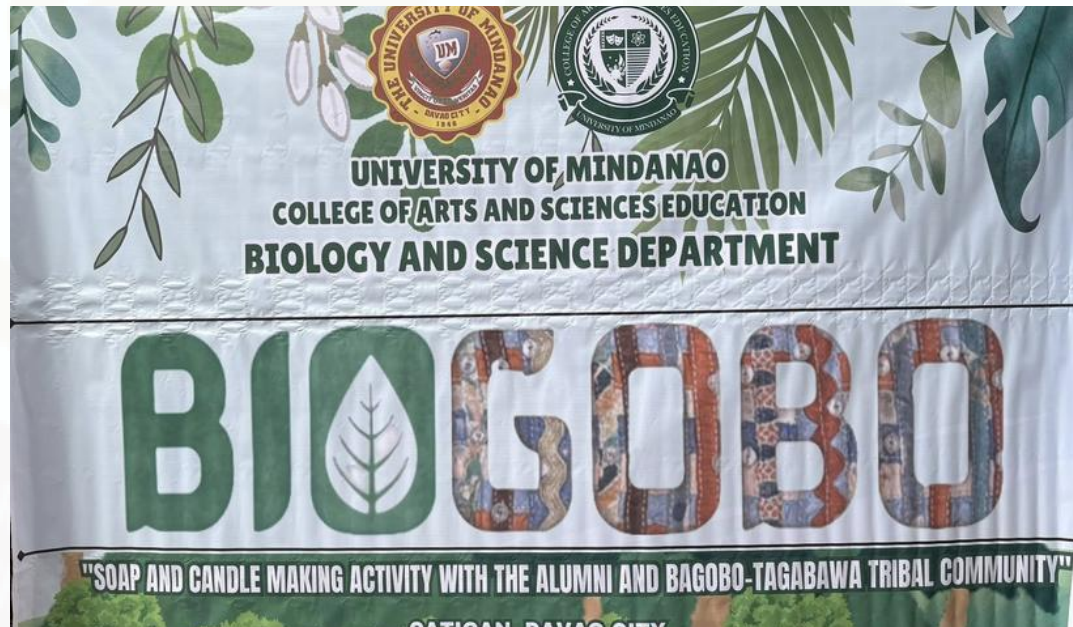
The program stands as a model of grassroots-driven development, proving that sustainable change begins with investing in those most often left behind. By putting women at the center of economic transformation, EmpowerHER 2.0 builds stronger families, more resilient communities, and a more inclusive society.



EmpowerHER 2.0 is more than just a livelihood program—it is a catalyst for inclusive development, community resilience, and gender equity. By equipping women with the tools to succeed economically, it fosters a cycle of empowerment that uplifts families and communities. As it continues to grow, the project demonstrates the vital role that educational institutions and community partnerships play in advancing the Sustainable Development Goals—proving that when women rise, society rises with them.



# UM Conducts Skills Training for Community Livelihood Community Anti-Poverty Programs



By teaching the fundamentals of soap and candle making—skills that require minimal startup capital—the program emphasized sustainability and inclusivity. It also fostered community engagement and encouraged lifelong learning

**37** participants actively engaged and took part in the community program, fostering a spirit of involvement and cooperation



The University of Mindanao (UM), through the College of Arts and Sciences Education (CASE), conducted a meaningful community outreach program centered on soap and candle making. This initiative is reflected particularly in promoting self-sufficiency and economic resilience among marginalized communities. With faculty and students working hand-in-hand, the program aimed to equip participants with practical skills that can open up new income-generating opportunities.



The university's proactive engagement in community development demonstrates how higher education institutions can be powerful agents of change. Through initiatives like this, the university empowers individuals to improve their living conditions while promoting entrepreneurship and self-reliance. As the SDG framework calls for partnerships and localized solutions, programs such as this are crucial in building stronger, more resilient communities from the grassroots level.



## 2 ZERO HUNGER

The University of Mindanao promotes accessible and affordable food options across its campuses. By providing reasonably priced meals and beverages through on-campus food stalls and cafeterias, UM helps ease the financial burden on students and staff, particularly those from low-income backgrounds. These efforts reflect the university's commitment to creating a learning environment where no member of its community is held back by hunger.

- Sustainable and Affordable Food Choices on Campus
- Healthy Food Choices on Campus
- UM's Sustainable Market Project
- Bringing Innovation to Local Farmers





# Affordable and Sustainable Food Choices Program at the University of Mindanao Canteen



This initiative reflects the university's dedication to creating a supportive campus environment where students can thrive both academically and personally. By offering affordable and healthy food alternatives, UM continues to align its efforts with the Sustainable Development Goals SDG 2: Zero Hunger, underscoring its belief that no student should have to choose between education and proper nutrition.



With meals priced reasonably, the UM Canteen makes it possible for students from diverse financial backgrounds to enjoy balanced and satisfying food without straining their budget. Beyond affordability, the canteen also emphasizes the importance of nutritious meal choices, recognizing that proper nourishment plays a vital role in sustaining academic performance and overall wellness.



Beyond providing nourishment, the UM Canteen also serves as a space for fostering community and inclusivity. By ensuring that healthy meals are accessible to all, the university not only addresses immediate nutritional needs but also instills lifelong values of wellness, balance, and social responsibility. In this way, the university continues to strengthen its commitment to student welfare while contributing to a more resilient and health-conscious society.

2 ZERO HUNGER



## Affordable and Sustainable Food Choices Program at the University of Mindanao Canteen



**WHAT'S FOR LUNCH?**  
*Thursday*  
**CHICKEN AFRITADA**

**HEALTH BENEFITS:**

1. PROTEIN FROM CHICKEN: ESSENTIAL FOR MUSCLE REPAIR AND GROWTH.
2. VITAMINS AND ANTIOXIDANTS FROM VEGETABLES: SUPPORT IMMUNE FUNCTION, EYE HEALTH, AND OVERALL WELL-BEING.
3. FIBER FROM VEGETABLES: AIDS DIGESTION AND PROMOTES GUT HEALTH.
4. HEALTHY FATS: DEPENDING ON THE OIL USED, IT CAN PROVIDE ESSENTIAL FATTY ACIDS.
5. MINERALS FROM INGREDIENTS: SUCH AS POTASSIUM, IMPORTANT FOR HEART HEALTH AND PROPER MUSCLE FUNCTION.

The graphic also includes the logos for the Center for Health Services and UMPX (UM Food Services, Inc.) at the top left, and a cartoon chef character on the right side.

The Center for Health Services and UM Food Services, Inc. have joined forces to bring the University of Mindanao community a series of insightful and informative Food FAQs inspired by the UM Canteen's daily menu. This collaboration is designed to provide both students and employees with valuable knowledge about the nutritional value, health benefits, and variety of meals served on campus.

By combining expertise in health and food service, this initiative ensures that the UM community is not only offered affordable and delicious meals but is also empowered to make informed choices that support wellness and healthy living.

2 ZERO HUNGER



# UM Hunger-Free Campus Program: Building a Healthier Future



Here at the University of Mindanao, every plate served matters. While conversations around this goal often focus on large-scale food security challenges, it is essential to recognize the powerful impact of localized efforts to promote healthy, sustainable food systems. One such initiative—introducing new healthy options in cafeterias—is proving to be more than a menu change. It's a meaningful step toward combating hidden hunger, improving well-being, and supporting sustainable food choices.

This initiative reflects the university's growing commitment to nutrition, accessibility, and environmental responsibility. Cafeteria menus are now featuring more plant-based options, seasonal fruits, locally sourced vegetables, and balanced meals designed to meet dietary needs without sacrificing taste or affordability. These choices support not only the physical health of students and staff but also the long-term sustainability of the local food ecosystem.



The impact of this shift goes beyond nutrition. The University of Mindanao is using its platform as a leading academic institution to raise awareness about food security, educate students on mindful eating, and encourage behavior that supports broader SDG goals. Information boards in dining areas now explain the benefits of certain ingredients, the environmental cost of food waste, and how students can contribute to more ethical food systems—even with small, daily choices.

2 ZERO HUNGER



## University of Mindanao Farm-to-Market Passage Project-Cycle 2



Among the offices who supported the 1st tranche of FM Pass were the Quality Management Office (QMO), Records and Admission Center (RAC), College of Arts and Sciences Education (CASE), College of Criminal Justice Education (CCJE), College of Accounting Education (CAE), College of Teacher Education (CTE), College of Computing Education (CCE), College of Architecture and Fine Arts (CAFAE), College of Business Administration (CBAE), Human Resource Management and Development (HRMD), Office of Students Affairs (OSA), Academic Affairs Office (AAO), Treasury Department and the Physical Plant Management and General Services (PPMGS)



The University of Mindanao Main Campus - Community Extension Center officially launched the 2nd Cycle of the Farm-to-Market Passage Project (FM Pass) on June 10, 2024, continuing its commitment to support 80 indigenous people farmers and promote sustainable engagement. Fresh farm products from the Bagobo Tagabawa Tribal Community were brought and made available for purchase across the different university offices.



This initiative strengthens the university's partnership with local communities while providing faculty and staff access to affordable, organically grown produce. Beyond economic support, the project fosters cultural appreciation and empowerment among indigenous groups, especially the Bagobo Tagabawa farmers.

2 ZERO HUNGER



## University of Mindanao Farm-to-Market Passage Project-Cycle 2

The FM Pass Project strongly aligns with several key United Nations Sustainable Development Goals (SDGs), reinforcing its broader impact beyond local economic and social benefits. At its core, the project advances SDG 1 No Poverty – by providing Indigenous farmers with stable income opportunities and reducing reliance on exploitative lending systems; SDG 2 Zero Hunger – through improved access to markets and the promotion of sustainable agricultural practices; SDG 3 Good Health and Well-being – by ensuring access to fresh, nutritious, and locally grown produce for both farmers and the UM community; SDG 8 Decent Work and Economic Growth – by fostering inclusive rural development and supporting dignified livelihoods in agriculture; and SDG 17 Partnerships for the Goals – by exemplifying effective collaboration between academic institutions and Indigenous communities toward sustainable development.



2 ZERO HUNGER



## Empowering Adlai Farmers through Innovation: UM RPC and CEE bring Technology to Kinabuhi Farms



The Research and Publication Center (RPC) hosted a transformative event at Kinabuhi Organic Farms & Agriventures, Inc. (KOFAI), introducing groundbreaking Adlai technologies to local farmers. This program, titled **"Empowering Communities Through Innovation,"** focused on deploying, demonstrating, and training participants on advanced milling and threshing solutions to enhance efficiency and reduce post-harvest losses.

Though still in the prototype stage, these technologies are already making a significant impact. They hold immense promise for advancing sustainable Adlai production in Davao City and the whole Davao Region, offering a pathway to improved food security and economic resilience.



The initiative, aimed to bolster sustainable agricultural practices while improving food security and reducing waste. Farmers and stakeholders participated in hands-on training sessions, gaining practical skills to optimize the use of these innovative technologies. RPC intends to expand this initiative, continuing its mission to empower rural communities through innovation and sustainable solutions, especially towards Adlai production.

2 ZERO HUNGER



## Promoting Food Security: Adlai Rice Farming Orientation for Local Farmers



UM's Community Extension Center spearheaded a benchmarking activity for the Bagobo Tagabawa farmers of Catigan at Kinabuhi Organic Farms and Agriventures, Inc. (KOFAI) in Brgy. Malagos. The initiative aimed to introduce the farmers to Adlai rice farming while promoting sustainable and eco-friendly agricultural practices.



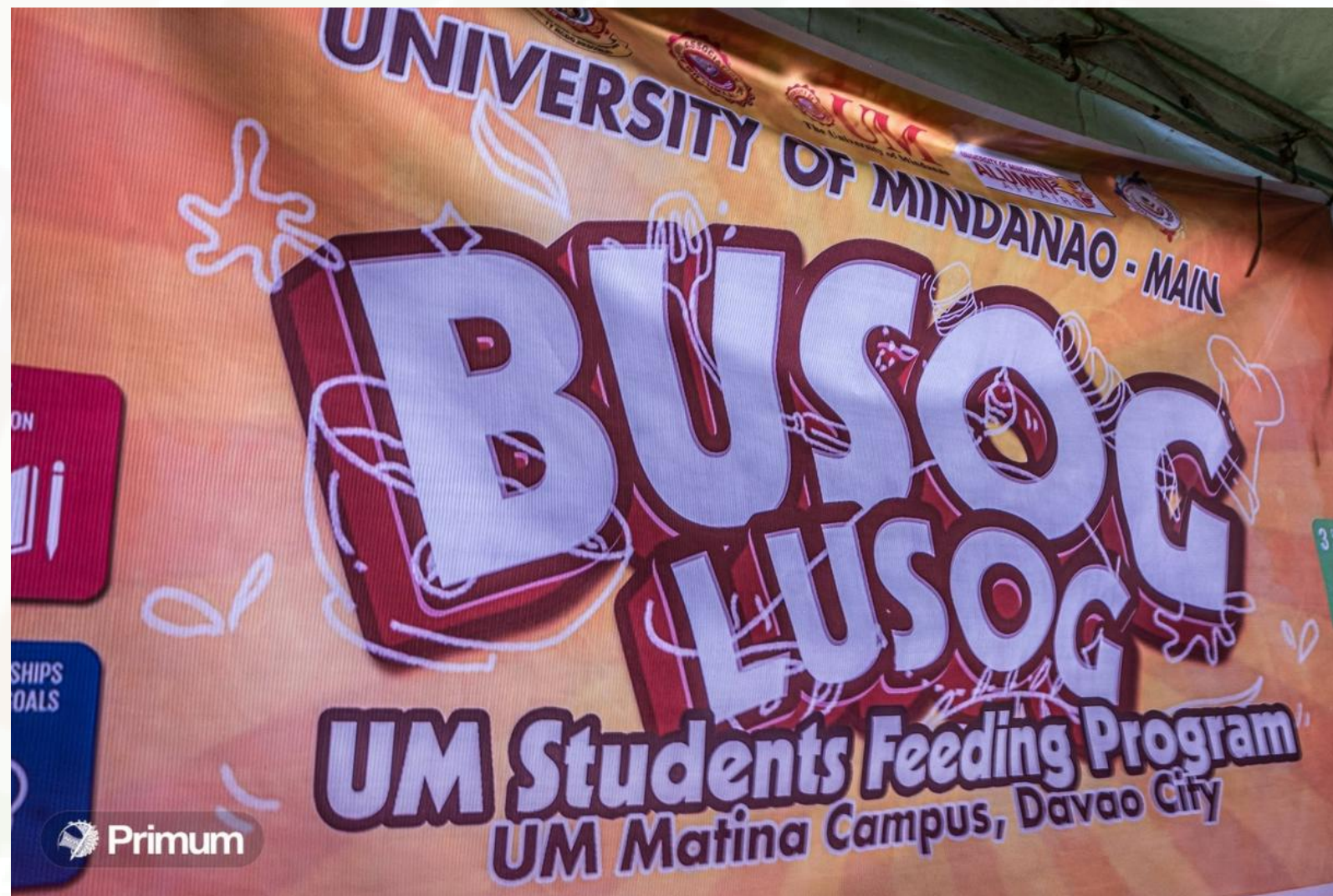
Through this exposure, the farmers gained valuable insights into innovative farming methods that can diversify their livelihood, strengthen food security, and reduce reliance on traditional crops. More importantly, the activity reinforced UM's continuing commitment to empowering indigenous communities by equipping them with knowledge and skills that foster both economic resilience and environmental stewardship.

2 ZERO HUNGER



## Busog Lusog-Cycle 1 & 2

Launched on September 17, 2025, the program supports the United Nations' Sustainable Development Goal #2: Zero Hunger by providing students with proper nourishment for their studies.



Highlighting the importance of health to the students, the University of Mindanao Alumni Affairs Association, Inc. spearheaded the 2nd Busog Lusog: UM Student Feeding Program on September 26, 2025, a collaborative initiative with the Council of College Student Government (CCSG) and partner institutions, including the University of Mindanao Alumni Affairs Office, Community Extension Office, and the UM Reserve Officers' Training Corps (ROTC) Unit.



# 3 GOOD HEALTH AND WELL-BEING

The University of Mindanao ensures that all students and staff have access to spaces and services that support health and well-being. UM provides a fully equipped fitness gym where students and staff can engage in physical activity to maintain a healthy lifestyle. In addition, the campus clinic offers unlimited medical consultations, dental care, and other essential health services, creating a supportive environment that prioritizes both preventive care and overall wellness.

- University of Mindanao's Partnership with Health Institution
- University-based Initiatives for HIV Awareness
- Anti-Drug Campaign Training/Seminar
- Community Outreach Programs
- Psychological Support Services





# Saving Lives, Building Communities: Mobile Blood Donation Program

The Mobile Blood Donation (MBD) Project of the University of Mindanao stands as a meaningful initiative dedicated to serving the community by ensuring that safe and readily available blood supplies are accessible to those in need. In close partnership with the Southern Philippines Medical Center (SPMC) – Blood Production Services, this project embodies the university’s commitment to public service and humanitarian care.



seeks to nurture a culture of volunteerism, compassion, and civic responsibility among the University of Mindanao community. By encouraging active participation, the program empowers students, employees, alumni, and even their relatives to contribute selflessly to a cause that directly saves lives.



The project successfully mobilizes a significant number of stakeholders, including students, employees, alumni, and their relatives, to participate in this noble cause. This active participation not only addresses an urgent community need but also enhances public awareness regarding the importance of blood donation.

Through the Mobile Blood Donation Project, the University of Mindanao not only helps address the critical demand for blood but also demonstrates how academic institutions can play a vital role in advancing sustainable development goals—promoting health, well-being, and community resilience.

**163**

**units** on May 10, 2023 (52nd MBD)

**179**

**units** on September 20, 2023 (53rd MBD)

**159**

**units** on January 18, 2024 (54th MBD)

**207**

**units** on September 18, 2024 (55th MBD)

**144**

**units** on January 22, 2025 (56th MBD)

### 3 GOOD HEALTH AND WELL-BEING



## UM Medical Mission: CHSE UMagapay



# 120

residents have availed the free medical services.



Recognizing the critical need for healthcare awareness, CHSE launched this project to bridge the gap in medical knowledge and services, particularly among the Bagobo Tagabawa Indigenous Community in Barangay Catigan. The initiative was also in response to the community's expressed concerns about the limited access to accurate health information and medical assistance.

By addressing these gaps, the college aimed to enhance community understanding of essential healthcare practices and the importance of preventive measures



CHSE UMagapay Medical Mission offers invaluable experience to student volunteers, giving them the opportunity to apply their knowledge in practical settings while fostering a sense of social responsibility. CHSE is committed to promoting community health, and future initiatives will prioritize expanding outreach efforts and strengthening partnerships within the community to create a lasting impact on public health. This initiative supports CHSE's mission of making healthcare education and services more accessible, ensuring that all communities, especially indigenous groups, receive the medical care they deserve.

### 3 GOOD HEALTH AND WELL-BEING



## Committed to Care 2.0 Project C2C: Classroom to Community



The Committed to Care 2.0 (C2C) Initiative is a flagship community engagement project of the College of Health Sciences Education (CHSE). Focused on outcomes-based learning through collaboration with local communities. Launched in 2023 to address malnutrition and poor health outcomes in vulnerable sectors of Davao City.

The immediate, measurable results of Committed to Care 2.0 Project C2C: Classroom to Community demonstrated positive community impact across its four target barangays.

The target population includes identified communities in Davao City with a high incidence of malnutrition and nutrition-related diseases. By working directly with community partners, including the City Health Office (CHO) and local barangays, students co-design and deliver programs that respond to specific community health needs. At the heart of Project C2C is the principle that sustainability is all about relevance, impact, and value.

Project C2C transforms the traditional classroom into a platform for sustainable development, professional formation, and social accountability. It is when Outcome-Based Education meets community empowerment, and where students become co-creators of lasting change.



# 30

mothers previously identified with low levels of knowledge on Infant and Young Child Feeding (IYCF) practices showed significant improvement, with all scoring 75% and above in post-tests following series of nutrition education sessions using student-designed IEC materials.

# 20

families who initially lacked knowledge on prescription drug use and basic therapeutic management for lifestyle-related conditions exhibited increased awareness and understanding after targeted sessions.

# 50

percent increase in the number of mothers with improved knowledge and skills. Although changes in children's nutritional status take time, Barangay Nutrition Scholars (BNS) reported notable improvements in child feeding patterns.



## "Superhero Hygiene: Power Up with Clean Hands and Bright Smile" Program



This significant community outreach effort, coordinated by BPE students from the University of Mindanao as part of their BPE 311 Coordinated School Health Program and BPE 312 Personal, Community, and Environmental Health courses, sought to promote vital hygiene habits among Grade 3 students.

The Superhero Pledge, in which children committed to promoting and embracing hygienic behaviors in their homes and communities, was a program highlight.

This significant community outreach effort, coordinated by BPE students from the University of Mindanao as part of their BPE 311 Coordinated School Health Program and BPE 312 Personal, Community, and Environmental Health courses, sought to promote vital hygiene habits among Grade 3 students.



This symbolic pledge embodied the initiative's goal of developing young health champions who improve their peers' overall well-being.

The "Superhero Hygiene" program reflects a proactive effort to promote public health. By imparting essential hygiene knowledge, the initiative supports disease prevention, reduces the risk of illness, and fosters healthier school environments.

3 GOOD HEALTH AND WELL-BEING



## Know your status: UM promotes HIV awareness on Valentine's Day

Center for Health Services is redefining the traditional notion of love and care by hosting a groundbreaking event that combines romance with a vital reality check.

In partnership with Jefferyl Community by Love Yourself Inc., UM is launching "Know Your Status: Free HIV Testing and Counseling"—a two-day initiative that offers free HIV testing, counseling, and education to the university community from February 13-14, 2025 at UM Matina Clinic.

The event aims to promote HIV awareness and education, encouraging UMians and faculty members to prioritize their health and well-being.



266

individuals voluntarily availed the HIV Testing and Counseling.



## Breaking the stigma: CASE-CSG, UMPFO host HIV/AIDS Awareness and Prevention initiative

College Student Government (CASE-CSG), in collaboration with the University of Mindanao Peer Facilitators Organization (UMPFO) and the Family Planning Organization of the Philippines (FPOP), successfully conducted an HIV/AIDS Awareness and Prevention, along with free and confidential HIV screening, at the UM Matina Campus, AVR 4, LIC, on February 10, 2025.

Aimed at educating UMians and faculty on the importance of prevention and early detection, the event featured loopdiscussions led by HIV/AIDS advocates, equipping attendees with knowledge on transmission, prevention strategies, and available support services while emphasizing the role of education in fostering a more inclusive and understanding society.

Dennis John T. Barimbao, LPT, the resource speaker, highlighted the significance of youth involvement in championing advocacy and engagement for Comprehensive Sexuality Education (CSE) in preventing unintended early pregnancies and raising awareness about sexually transmitted infections (STIs).



Themed "**HIV ENDS WITH US: Unite for HIV Awareness and Prevention,**" the event supports the university's goal of holistic student development and social responsibility by combating HIV/AIDS misinformation and fostering a more informed and compassionate campus community.



## Drug-Free Workplaces: A Collaborative Training Initiative



The Community Extension Center of the University of Mindanao, in partnership with the City Anti-Drug Abuse Council (CADAC), successfully conducted a two-day Drug-Free Workplace Training.

**52** participants across 23 private companies actively participated the event

The training featured resource speakers from key agencies, including the Philippine Drug Enforcement Agency (PDEA)—IO II Joenelyn Gareza and Atty. Catherine Docdocil, the Department of Labor and Employment (DOLE)—Ms. Jocelyn Flordelis, and CADAC representatives Ms. Nelia Dayondon, Mr. Wendell Tolibas, and Mr. Joseph Querequincia, alongside UM AVP Sitti L. Apadan. Together, they provided valuable insights on the legal framework of drug-free workplaces, effective strategies for program implementation, and approaches to creating a supportive environment for employees affected by substance use.



This initiative underscores the collective effort of government agencies, the private sector, and academic institutions in building healthier, safer, and more productive communities. By fostering inter-agency cooperation and community engagement, the University of Mindanao reaffirms its commitment in promoting good health, well-being, and decent work for all.



# Ang Pagsubang sa Bag-ong Adlaw: Psychological Support Services Project

The Balay Banaag Banner Project, spearheaded by the Psychology Program of the College of Arts and Sciences Education, is a flagship community initiative dedicated to improving the mental health and emotional resilience of at-risk girls residing in Balay Banaag, a shelter for vulnerable children.

The core objectives of the project are to assess psychological needs, foster a safe and therapeutic environment, develop life and social skills, and ensure sustainable psychological interventions. It envisions a nurturing space where children feel seen, heard, and valued—a crucial foundation for healing and growth.



30

resident-girls of Balay Banaag through standardized psychological assessments, individualized emotional safety plans, and structured psychosocial activities.

Facilitated by psychology students, community-based Structured Learning Experiences (SLES) have enhanced emotional expression, social interaction, and self-worth through journaling, games, group reflection, and creative arts. A sports clinic further supported holistic development by building confidence, teamwork, and physical well-being. Both facilitators and children have attested to improved self-esteem, interpersonal relationships, and a renewed sense of hope.

Each year, the program has tackled specific aspects of psychosocial development—from trauma recovery to values formation. In the next two years, the project aims to implement:

- A mentorship program to enhance the girls' social and communication skills
- A psychological tracking system to monitor individual progress and evaluate long-term impact
- Expansion of partnerships with other organizations to broaden access to services and support



Upon completing its five-year cycle, the Psychology Program will conduct a comprehensive impact evaluation to explore future opportunities for sustained intervention and institutional support.

The Balay Banaag Banner Project proves that community-based psychological support can transform lives. It is a powerful model of how higher education institutions can play a pivotal role in safeguarding the mental well-being and future potential of society's most vulnerable. As it evolves, the project continues to give these girls not just therapy—but also hope, confidence, and a chance to thrive.



## 4 QUALITY EDUCATION

First in Leadership Education, the University of Mindanao continues to uphold its commitment to providing quality education, living up to its core mission and vision. The university consistently produces board top-notchers across various disciplines—an ongoing testament to its dedication to academic excellence. In the realm of research, UM has published numerous studies locally, nationally, and internationally, reflecting its strong research culture. Moreover, its efforts to build global connections are evident in its international research collaborations, further enhancing academic innovation and knowledge exchange:

- Educational Literacy Outreach Programs
- University-based Educational Activities
- UM Student Engages in Congress for Leadership and Development
- UM: Home of Topnotchers
- Building Sustainable Communities





## UM BLIS Program Donates Books to Catigan National High School

The program's success lies in cross-sector collaboration, especially through the UM Professional Schools, which have driven community organizing, capacity-building, digital innovations, and livelihood initiatives between 2022–2026. Its holistic design makes it a replicable model for other cities seeking to implement inclusive and locally embedded rehabilitation systems that go beyond punitive approaches.

163

titles of books distributed.

167

volumes of books were donated to Catigan National High School.





## Teacher Education Reaches Out to an IP School for a Reading Tutorial Program

The College of Teacher Education (CTE), through its student organization AGENT (Association of Generalist Teachers), once again demonstrated its commitment to education by distributing learning materials to Bagobo Tagabawa pupils in Barangay Catigan. This outreach activity complemented CTE's extension initiative, "Pagpaambit sa Kinaadman," which recently concluded a three-month Reading Intervention Program at Catigan Elementary School.



Cognizant of the global call for Education for All, the college strives to address barriers to learning often faced by disadvantaged groups such as indigenous communities. Through "Pagpaambit sa Kinaadman," CTE works to bridge educational gaps by equipping learners with foundational skills in reading, thereby fostering academic growth and self-confidence among young learners.

By extending education beyond the classroom and into communities, the University of Mindanao reinforces its mission of shaping teachers who are not only educators but also advocates of lifelong learning, equity, and social transformation.



**4** QUALITY  
EDUCATION



## Magbasa Para May Pag-asa: UM Peñaplata's SDG 4 Model for Literacy and Hope

UM Peñaplata College is committed to bridging educational gaps through its community-based reading tutorial program, a literacy campaign that delivers free, inclusive, and bilingual reading support to underserved learners. Since its launch in 2022, the initiative has helped over 300 elementary pupils from both public and private schools enhance their reading skills, comprehension, and confidence in learning.

Through two-week intensive reading camps conducted annually, the program provides English and Filipino literacy interventions, distributes donated storybooks and school supplies, and engages teacher education students in meaningful, hands-on teaching experiences.

Inspired by the program's success, UM Peñaplata plans to expand its reach through a Barangay Reading Outreach Program, targeting out-of-school adolescents and hard-to-reach learners. Strengthening partnerships with local government units will be key to scaling the project and making literacy accessible to all. By building on its early gains, the university aims to ensure that no learner is left behind in the mission to create a more educated and empowered society.

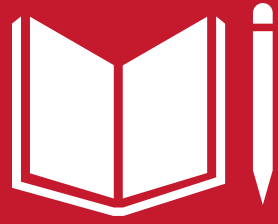
The program actively promotes inclusive, equitable, and effective learning for all. By addressing foundational literacy gaps, supporting at-risk students, and empowering future teachers through community engagement, the initiative contributes meaningfully to improving educational quality and access—especially in underserved areas.

# 300

## young learners supported in literacy development

Teachers and administrators from partner schools have reported significant improvements in students' reading levels, with many participants showing greater academic confidence and advancing to the next grade. The project not only uplifts individual learners but also contributes to the broader goal of eradicating learning poverty in marginalized communities—an investment in human capital that has lasting effects on families, schools, and local society.





# Community Extension Center Empowers Project Implementers Through Research Writeshop

**28** participants, composed of project proponents and SOCI Coordinators from 10 colleges across the university, actively joined the workshop.

Serving as mentors were Dr. Joel Tan, Assistant Vice President for Business and Social Sciences Studies, and AVP Sitti L. Apadan of the Community Extension Center, who provided expert guidance and valuable insights.



The write shop offered participants a platform to present their research proposals while receiving constructive feedback to refine their clarity, structure, and methodological soundness. The initiative not only strengthened participants' research writing skills but also promoted accountability by ensuring that extension projects are measurable and impactful.

This endeavor underscores the CEC's commitment to advancing research-driven community engagement, empowering faculty and coordinators to design initiatives that address real societal challenges. By cultivating evidence-based approaches, the university continues to reinforce its mission of creating meaningful and sustainable contributions to both the academic community and partner communities.



**4** QUALITY  
EDUCATION



## UM Inter-branch United Nations Sustainable Development Goals Students' Conference

Spearheaded by the Council of College Student Government (CCSG) on January 17, 2025, the UM Inter-Branch United Nations SDG Students' Conference gathered student leaders from various branches and colleges to exchange ideas and craft innovative strategies for advancing global sustainability.

The conference placed strong emphasis on SDG 4: Quality Education and SDG 11: Sustainable Cities and Communities, underscoring the vital role of the youth in shaping inclusive, resilient, and forward-looking communities.

Through engaging plenary sessions, dynamic project pitching, sharing of best practices, and inspirational leadership talks, the event empowered UMians to become active drivers of positive change. Participants not only gained insights into addressing pressing global challenges but also strengthened their capacity to translate knowledge into meaningful action, affirming the University of Mindanao's commitment to nurturing leaders who will build a more sustainable future.





# UM Hosts 4th IET Student Research Congress and Faculty Research Forum

The University of Mindanao proudly presents the **4th Institute of Emerging Technologies (IET) Student Research Congress and Faculty Research Forum**—an interdisciplinary platform bringing together the university’s brightest minds in engineering, architecture, and computing.

In response to the accelerating demands of Industry 4.0 and the urgent call for resilient and sustainable solutions, this year’s forum serves as a vital venue for students and faculty to showcase research innovations that integrate advanced technologies with real-world applications. The event also seeks to foster meaningful collaboration between academia, industry, and government in addressing pressing challenges in infrastructure, urban development, and digital transformation.

Organized by the Institute of Emerging Technologies (IET), in partnership with UM’s College of Engineering Education, Architecture and Fine Arts Education, and Computing Education, the forum underscores the university’s commitment to research-driven innovation and inclusive problem-solving. By empowering participants to design and develop resilient technologies that support both social and environmental well-being.

**4<sup>TH</sup> INSTITUTE OF EMERGING TECHNOLOGIES**  
A STUDENT RESEARCH CONGRESS AND FACULTY RESEARCH FORUM 2025

**MAY 13, 2025 (8:00AM-5:00PM)**

**THEME:**  
**HARNESSING INDUSTRY 4.0: UNITING ENGINEERING, ARCHITECTURE, AND COMPUTING FOR A RESILIENT TOMORROW**

**VENUE:**

- AUDITORIUM (MAIN PROGRAM)
- DPT LOBBY (POSTER AND INVENTION EXHIBITS)
- SOCIAL HALL (COMPANY EXHIBITS)



# UM Hosts Exit Report Presentation of DOST Balik Scientist Program

The University of Mindanao proudly hosted the Exit Report Presentation of the Department of Science and Technology's (DOST) Balik Scientist Program (BSP) on August 13, 2025, at Cagliari Hall, Matina Campus.

With the theme "Engineering the Invisible: Advancing Nanotechnology and Smart Systems in the Philippines," the event spotlighted the groundbreaking contributions of Medium-Term Balik Scientist Dr. Khino J. Parohinog and Long-Term Balik Scientist Dr. Chosel P. Lawagon.



The scientists shared their significant accomplishments, which include capacity-building programs, research collaborations, and mentorship activities conducted at UM. Their initiatives strengthened the university's expertise in chemical engineering, nanotechnology, environmental applications, and curriculum development, further positioning UM as a hub for scientific innovation and academic excellence in Mindanao.

Beyond advancing scientific knowledge, the program also fosters partnerships between returning Filipino scientists and local institutions, ensuring that expertise gained abroad is shared and maximized for national development. These collaborations create opportunities for joint research, knowledge transfer, and mentorship that empower local researchers and students to engage in high-impact studies. By bridging global expertise with local needs.





# Students' Excellence in Sustainability-related Engineering Research and Innovation

## 1ST RUNNER-UP

**“Engineered Concrete Composites: Comparison of Banana (*Musa Acuminata*) Pseudostem as Natural Fiber and Nanocellulose (Nafi-Nano) Reinforcements,”** presented by *Lj Idane S. Aranas and John Kyelle B. Arado*. This research was made possible through the efforts of *Mary Xel Joa Roslinda and Sharless Jay Paluga Engr.* for conducting the initial optimization study with their adviser *Roumel Salvador Alvarez*

## 2ND RUNNER-UP

**“Amphibious agricultural storage: A non-obstructive flood risk mitigation structure,”** presented by *Zillah B. Masangkay, Claire Mae A. Abian, and Efren John P. Nerves* with their adviser *Engr. Danielyn Plazos*;

## BEST IN POSTER

**“STF (Solar, Turbine, Fuel) Hybrid Generator”** presented by researchers *Rolf M. Cadelina, Winston Jay L. Cascajo, and Bernard Andre Gabisan* with their research adviser *Engr. Paulo John Infant*





# UM DOST Scholars Shine at National Patriot Scholars Congress

**1st** spot secured by the UM DOST Scholars in the Social Night of DOST's National Patriot Scholars Congress (NPSC),

Building on this success, UM DOST Agilas members namely Nadjara Sittie Lintangi, Lourel Dequilla, both Bachelor of Science in Civil Engineering students, and Kristoffe Bien Montelibano, a Bachelor of Science in Computer Science student, demonstrated their exceptional skills as they represented Region 11, aiming for national development through active citizenship.



Through their participation and achievements at the NPSC, the UM-DOST Agilas not only brought pride to the university and the Davao Region but also embodied the values of excellence, leadership, and service that the University of Mindanao seeks to instill in its scholars. Their journey serves as an inspiration for fellow students to pursue innovation with purpose, embrace cultural identity, and contribute meaningfully to the nation's sustainable development goals.



These accomplishments underscore the University of Mindanao's commitment to driving change through research, innovation, and community engagement. They also stand as a testament that with the right support systems, cutting-edge technology, and the passion of student leaders, the nation can continue to adapt, thrive, and lead in a rapidly evolving global society.



4 QUALITY EDUCATION



# Excellent Performance of UM Graduates in Licensure Examinations

Graduate Name	Exam Name	Rank	Score	Date
Nes Ainee L. Luczon	September 2024 Licensure Examination for Professional Teachers	TOP 4	93.80%	September 2024
Jonah S. Autida	Psychometricians Licensure Examination	TOP 6	86.20%	August 2024
John Joseph Z. Kagatan	Real Estate Brokers Licensure Exam	TOP 1	92.25%	April 2024
Jericho A. Suarez	Licensure Examination for Criminologists	TOP 2	91.50%	July 2024
Arvin B. Englisa	Licensure Examination for Professional Teachers	TOP 5	91.80%	March 2024
Rey Mediana Arcabal	Mechanical Engineers Licensure Exam	TOP 1	93.45%	February 2024

3

Topnotchers  
for  
the Year 2024

5

4 QUALITY EDUCATION



# Excellent Performance of UM Graduates in Licensure Examinations

**CONGRATULATIONS!**

**TOP 2**  
( 92.50% )

August 2025  
Mechanical Engineers  
Licensure Examination

**MARJUN B. ESPINOSA**

**CONGRATULATIONS!**

**TOP 8**  
( 89.75% )

August 2025  
Mechanical Engineers  
Licensure Examination

**CHRIS JERICHO M. RIVAS**

**CONGRATULATIONS!**

**TOP 3**  
( 90.50% )

April 2025  
Real Estate Brokers  
Licensure Exam

**DENISE MARIE B. ASTILLO**

**CONGRATULATIONS!**

**TOP 5**  
( 90.33% )

May 2025  
Licensure Examination for  
Certified Public Accountants

**RICA MAE D. MARBEBE**

**CONGRATULATIONS!**

**TOP 2**  
( 93.60% )

March 2025  
Licensure Exam for  
Professional Teachers  
(Secondary Level)

**FLOYD D. BANDALAN**  
UM TAGUM COLLEGE

**CONGRATULATIONS!**

**TOP 2**  
( 93.60% )

March 2025  
Licensure Exam for  
Professional Teachers  
(Secondary Level)

**LEEJANE P. COGOLLODO**  
UM PANAGO COLLEGE

1

Topnotchers  
for  
the Year 2025

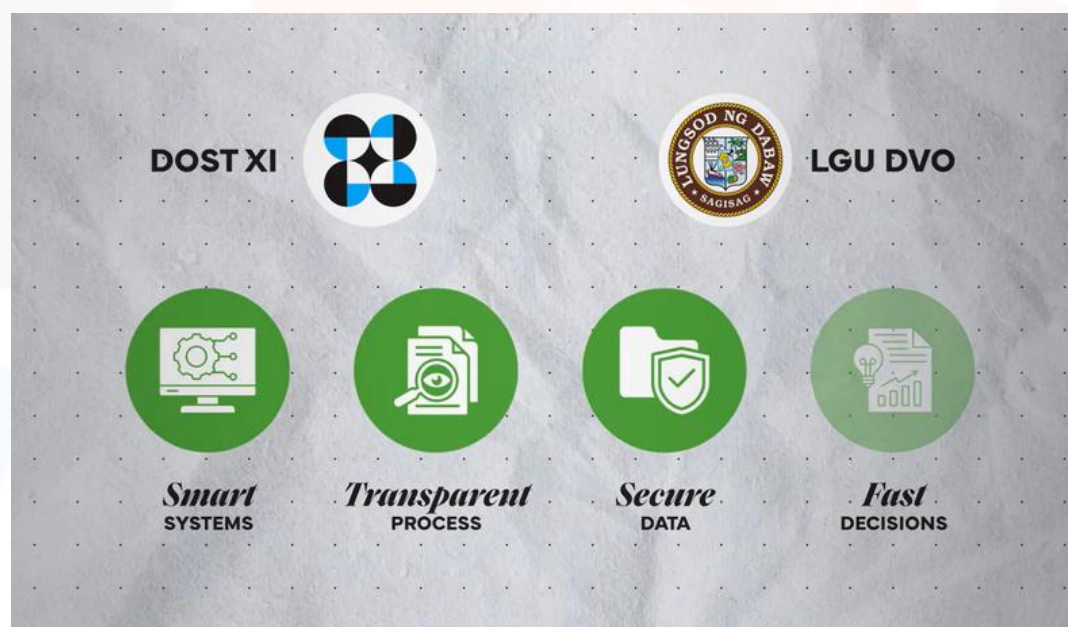
5



# Smart Information Systems for Sustainable Governance, Education, and Public Service

The College of Computing Education (CCE) leads projects that utilize technology to enhance the accessibility and effectiveness of education, governance, and public services. These include:

- Smart Information Systems with DOST and LGUs to increase transparency and data protection
- eSTEP and StuFAPs, which help CHED and Davao City's EBSU manage scholarship programs
- A Smart Building System and ICT Mapping project to help with energy use and planning
- A Hospital Information System for the PNP Health Service and a Human Resource System for the 45th Special Action Company



These systems use advanced technology to make processes faster and more reliable, helping communities and public offices serve people better.

The project has had strong, measurable results. Over 10 organizations are now using the systems developed by CCE. Scholarship applications have become faster and easier to process through eSTEP and StuFAPs, helping many students in need. Government offices using the Smart Information Systems now work more efficiently and make better decisions. The Smart Building System has improved energy management and safety. In healthcare, the HIMS helps doctors and nurses access patient records easily, while the HRIS supports staff management at the PNP.

CCE plans to share these systems with more communities and government agencies across Mindanao. The team will add new features like mobile access, better analytics, and user-friendly designs. We also aim to bring the scholarship and health systems to other regions and build tools to help indigenous groups and disaster-prone areas. The college will continue holding training and gathering feedback from users to improve the systems.



By working closely with national partners and involving students through research and capstone projects, CCE will keep supporting innovation for long-term use. These best practices will grow stronger and help more people through better services and smarter use of technology.



# 5 GENDER EQUALITY

With its “open admission” policy, the University of Mindanao champions Sustainable Development Goal 5: Gender Equality by embracing diversity and inclusivity in its academic community. The university admits students regardless of race, nationality, religion, gender identity, or socio-economic status, ensuring that education is a right afforded to all, not a privilege for a few. At UM, every individual, whether a staff member or a student, is given the opportunity to thrive academically and personally, supported by an environment that values equity and mutual respect.

- Implementing Structural Pay Equity Eliminates Bias and Drives Workforce Equality





# UM Policy on Structural Pay Equity “Eliminates Bias and Drives Workforce Equality”

The University of Mindanao (UM) adheres to the principle of equal pay for work of equal value. Recognizing that a gender pay gap may exist within the organization, UM is committed to proactively identifying, addressing and eliminating any unjustified disparities in compensation among employees, regardless of gender. This Policy outlines the framework for identifying, analyzing, addressing, and monitoring the gender pay gap that may occur within the organization.



In the modern workplace, equality is no longer just a buzzword to be printed in annual reports—it is a metric of institutional integrity. True progress demands that we move past good intentions and establish concrete, unshakeable foundations for fairness. To bridge the historical gaps that have long divided the workforce, organizations must commit to four non-negotiable guiding principles. This is the blueprint for a balanced future.

**Equal Pay for Equal Work** - When two individuals bring the same dedication, skill, and effort to roles of equal weight, their compensation must mirror that equality.

**Transparency** - When the criteria for salary increases are openly shared, it builds an environment of trust, stripping away ambiguity and empowering every employee to map out their professional growth with confidence.

**Fairness** - to achieve genuine fairness, decisions surrounding compensation and benefits must be anchored strictly to objective, job-related criteria. By relying on measurable performance, qualifications, and responsibilities, organizations can design a bias-free system where merit is the sole driver of reward.



**Monitoring and Review** - Organizations must commit to regular, systemic reviews of employee salaries. By constantly monitoring data and actively hunting for a gender pay gap, leadership can catch discrepancies and fix them immediately.



## 6 CLEAN WATER AND SANITATION

The University of Mindanao has actively taken steps to transition toward more energy-efficient and sustainable operations across its campuses. These initiatives include the conversion of traditional projectors to LED models in auditoriums, significantly reducing energy consumption. Additionally, the university has started replacing conventional air conditioning units in classrooms with inverter-type models, which are known for their energy efficiency and lower electricity usage. These actions demonstrate the university's commitment to reducing its carbon footprint and embracing cleaner technologies.

- Access to Clean Water
- UM's Water Conscious Building Standards
- Drought Tolerant Plants on Campus
- Microbial Analysis Test Results
- Preventing Water System Pollution
- Sustainable Water Extraction on Campus






# Promoting Health and Sustainability Through Access to Clean Drinking Water

In its continuing effort to promote health, sustainability, and student welfare, the University of Mindanao has made clean drinking water accessible through strategically placed drinking fountains across campus. Located in key areas such as cafeterias, academic halls, and student lounges, the drinking fountains are part of UM's broader commitment to sustainable campus living. Not only do they help reduce single-use plastics, but they also ensure that every member of the university community has free access to safe and potable water.

50

units of drinking fountains distributed in all buildings for UM-Matina Campus





Republic of the Philippines  
**DAVAO CITY WATER DISTRICT**  
WATER TESTING LABORATORY  
Km. 2.5, MacArthur Highway, Matina, Davao City  
Telephone No. (+63)(82) 235-3293 local 1722  
Website: <http://www.davao-water.gov.ph>

---

**TEST REPORT OF MICROBIOLOGICAL ANALYSIS**  
DOH - Accreditation No. 11-01-2123-LW-1

---


Requesting Party/Customer :	UNIVERSITY OF MINDANAO	Date Issued :	JAN 23 2023
Contact Number :	(082) 227-5456	Date of Collection :	January 16, 2023
Address of Sampling Point :	Bolton Street, Davao City	Date and Time of Submission :	January 16, 2023 10:55 AM
Sample Source :	Davao City Water District - After the Meter	Date Analyzed :	January 16, 2023
Sample Collected by :	Bryan Paul Miras	Date Reported :	January 19, 2023
Analysis Requested :	Heterotrophic Plate Count (HPC), Total Coliform and Thermotolerant Coliform	Report Number :	2023-12
Test Method used :	Multiple Tube Fermentation Technique, Standard Methods for the Examination of Water & Wastewater (SME/WW) 23 <sup>rd</sup> Edition		

---

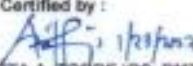
**RESULT OF BACTERIOLOGICAL ANALYSIS OF WATER**

Sample Code	Sampling Point(s)	TIME		RESULTS OF ANALYSIS			Remark(s)
		Collection	Analysis	Total Coliform MPN/100ml	Thermotolerant Coliform MPN/100ml	Estimated Heterotrophic Plate Count (HPC) CFU/ml	
f-2023-19	Embassy Near Mindanao Times Drinking Fountain	9:00 AM	1:00 PM	<1.1	<1.1	<1	Passed
f-2023-20	SSB Quadrangle Area Drinking Fountain	9:05 AM	1:00 PM	<1.1	<1.1	<1	Passed
f-2023-21	SSB Annex Near Law Office Drinking Fountain	9:10 AM	1:00 PM	<1.1	<1.1	<1	Passed
f-2023-22	SSB 2nd Fir. Drinking Fountain	9:25 AM	1:00 PM	<1.1	<1.1	<1	Passed
Standard Values for Microbiological Quality of Drinking Water (PNSDW 2017 page 9, Department of Health Administrative Order 2017-0010)				<1.1	<1.1	<500	

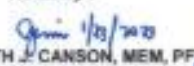
Notes: 1. Results of analysis are specifically related to sample/s as received.  
2. Sample/s from the same lot may produce different results.  
3. Analysis done by batch.  
4. Parameters required for Drinking Water: Heterotrophic Plate Count (HPC), Total Coliform and Thermotolerant Coliform.

  
 HEIDE G. ACERO, RMT  
Analyst

Certified by :

  
 MARIA ANITA A. TORREJOS, RMT  
Technical Lead

Noted by :

  
 ALMA JUDITH J. CANSON, MEM, PFT  
Laboratory Head

This report shall not be reproduced except in full without the approval of DCWD-PO-WQD and is not valid for advertising or sale purposes.

TL-OPM-09-F03  
Version no. 1  
1 January 2023
page 1 of 1
Not valid without DCWD seal



## Rainwater Harvesting/Catchment System

The University of Mindanao ensures that water will not be wasted by integrating sustainable practices into its campus operations. A total of **27 rainwater catchments** have been installed across the campus to promote efficient and responsible water consumption. The collected rainwater is utilized for watering plants and maintaining campus greenery, reducing reliance on potable water sources. Through this initiative, the University not only conserves valuable resources but also strengthens its commitment to environmental sustainability

27

Rainwater  
Catchments





## Drought Tolerant Landscaping

Water-efficient landscaping is promoted by using drought-tolerant, low-water-demand plant species across the campus. These resilient plants require minimal irrigation, helping reduce water consumption while maintaining healthy and attractive green spaces. By integrating climate-adaptive landscaping practices, this initiative supports responsible water stewardship and contributes to the long-term sustainability and resilience of the campus environment.

Landscape areas feature resilient ornamental plants such as:

- Golden Crinum
- White Spider Lily
- ZigZag
- Santan
- Snake Plant
- Golden Pothos
- Yucca
- Philodendron
- Aglaonema
- Acalypha plant
- Szefflera Plant
- Rubber Plant
- Fortune Plant
- Gumamela
- Duranta Plant
- Donn Manue; Plant
- Kalachuche Plant
- Variegated Papua
- San Francisco



These species require minimal irrigation while maintaining healthy, attractive green spaces, thereby reducing water consumption and supporting climate-resilient landscape management. This initiative reflects the University's commitment to responsible water stewardship and sustainable campus development.



# Clean Water Assurance Program: Monthly Microbial Water Quality Monitoring of UM Matina Campus

The University of Mindanao Matina Campus conducted monthly microbial analysis of its water supply throughout 2024 to ensure compliance with the Philippine National Standards for Drinking Water. Regular monitoring of microbiological parameters, including total coliform and Escherichia coli, helps verify the safety and potability of campus water, supporting a healthy learning environment and the University's commitment to sustainable water management and public health.

Providing free and safe drinking water is a vital component of the University's sustainability program, directly supporting Sustainable Development Goal (SDG) 3: Good Health and Well-being. Access to clean and potable drinking water helps prevent waterborne diseases, dehydration, and other health-related illnesses, ensuring that students, faculty, staff, and visitors remain healthy and productive. By offering free drinking water across the campus, the University also encourages healthy hydration habits while reducing the consumption of bottled water, thereby minimizing plastic waste and promoting environmentally responsible behavior.

The image displays 12 individual test reports arranged in a 3x4 grid. Each report is from the Davao City Water District Water Testing Laboratory and follows a standard format:

- Header:** Republic of the Philippines, Davao City Water District Water Testing Laboratory, Accreditation No. 11-01-2123-L01-1.
- Client Information:** UNIVERSITY OF MINDANAO, dated from Feb 21, 2024 to Sep 11, 2024.
- Table 1: RESULT OF BACTERIOLOGICAL ANALYSIS OF WATER**

Sample Code	Sampling Point	Collection	Analysis	Total Coliforms (MPN/100ml)	Thermotolerant Coliforms (MPN/100ml)	Escherichia Coli (MPN/100ml)	Remarks
M-2024-001	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-002	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-003	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-004	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-005	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-006	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-007	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-008	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-009	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-010	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-011	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
M-2024-012	Building Near Warehouse	9:00 AM	1:00 PM	<+1	<+1	<+1	Passed
- Table 2:** Standard Values for Microbiological Quality of Drinking Water (NSIC 1979) and Department of Health Administrative Order 2017-0018.
- Notes:** 1. Results of analysis are specifically related to samples as received. 2. Samples from the same lot may produce different results. 3. Analysis done by batch. 4. Parameters required for Drinking Water: Heterotrophic Plate Count (HPC), Total Coliforms and Thermotolerant Coliforms.
- Signatures:** HEER A. BARRAL, RMT (Analyst) and MARIA ANITA A. TORREALBA, RMT (Technician).
- Approval:** ALMA JUSTIN F. CANAL, RMT, PRT (Approved for Release).




# Wastewater Discharge Permit for Septic Tanks

The University ensures responsible wastewater management through the acquisition of wastewater discharge permits and the maintenance of septic tanks with updated siphoning certificates. These measures guarantee compliance with environmental regulations while preventing water contamination and safeguarding community health.

By adopting proper wastewater treatment and disposal practices, the University demonstrates its commitment to sustainable campus operations

Page 1 of 2



Republic of the Philippines  
Department of Environmental and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**  
Region XI  
3rd Avenue Corner V. Guzman St., Bldg. 27-C, Sta. Ana, Davao City  
Tel No. (082) 234-0061  
embdavao@emb.gov.ph

Date: Nov 21, 2024 Permit No.: DP-R11-24-11685  
**Renewal**

**WASTEWATER DISCHARGE PERMIT**


Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **University Of Mindanao** with office address at Bolton Street, Barangay 3-A (Pob.), Davao City, Davao Del Sur for its establishment:

<b>UNIVERSITY OF MINDANAO-MATINA CAMPUS</b>	<b>MA-A MA-A DAVAO CITY DAVAO DEL SUR</b>
<b>BEB SEPTIC TANK 1</b>	
TIN No. 000-265-328-000	

- The permit holder shall contain its wastewater into the 3-chambered, water-tight and leak-free Primary Wastewater Treatment Facility (Septic Tank).
- The permit holder shall conduct regular desludging of its primary wastewater treatment facility (septic tank) to prevent overflow of wastewater and shall secure a desludging certificate issued by a City/Municipality Health Office/Department of Health-accredited desludger.
- The permit holder shall, at all times, provide access for sampling and install any applicable flow measurement device/structure (i.e. flow meter, concrete weir, etc.) to measure the exact volumetric flow of its effluent (if applicable).
- The permit holder shall allow entry of **authorized DENR-EMB XI personnel to conduct inspection** and other activities for compliance monitoring of subject establishment or facility.
- The permit holder or Pollution Control Officer (PCO) shall submit quarterly **Self-Monitoring Reports (SMR)** to this Bureau in accordance with DENR Administrative Order No. 27 (Series of 2003). The deadline of submission of the SMR shall be fifteen (15) days after the end of each quarter. Submission shall be based on the following schedule:


Quarter	Coverage	Submission	Quarter	Coverage	Submission
First	Jan-Mar.	1-15 Apr.	Third	Jul-Sep.	1-15 Oct.
Second	Apr-Jun.	1-15 Jul.	Fourth	Oct-Dec.	1-15 Jan.

- The permit holder or PCO shall report in writing to the Bureau, within 24 hours, any event that the permittee is temporarily unable to comply with the conditions of the Wastewater Discharge Permit due to a breakdown of any of the installations covered by the permit from occurrence of such breakdown. The report shall be prepared following the **Environmental Incident Report** format stipulated in Annex 4 of DENR Administrative Order 02 Series of 2014. While the necessary installation is not in operation, the facility shall temporarily cease to operate if the breakdown will result in a discharge of untreated wastewater or pose an imminent danger to the environment or public health. Failure to do so shall result in maximum penalty imposed by law and liability for damages.
- In case of sale or legal transfer of a facility covered by this Permit, the permittee shall notify the Department through the Bureau of such and the name and address of the transferee within thirty (30) days from the date of sale or transfer. In case of failure to do so, the permittee shall be liable for any violation of these Rules and Regulations that the transferee may commit by reason of such transfer. It shall be the duty of the transferee to file an application for transfer of the permit within ten (10) days



This is a computer generated certificate. To verify the authenticity of this file, kindly scan the generated QR Code using your QR Code scanner/reader or visit the DENR website for details.

Page 1 of 2



Republic of the Philippines  
Department of Environmental and Natural Resources  
**ENVIRONMENTAL MANAGEMENT BUREAU**  
Region XI  
3rd Avenue Corner V. Guzman St., Bldg. 27-C, Sta. Ana, Davao City  
Tel No. (082) 234-0061  
embdavao@emb.gov.ph

Date: May 09, 2025 Permit No.: DP-R11-25-05105  
**New**

**WASTEWATER DISCHARGE PERMIT**


Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **University Of Mindanao** with office address at Bolton Street, Barangay 3-A (Pob.), Davao City, Davao Del Sur for its establishment:

<b>UNIVERSITY OF MINDANAO BOLTON - RTB</b>	<b>BOLTON STREET BARANGAY 3-A (POB.) DAVAO CITY DAVAO DEL SUR</b>
<b>SEPTIC TANK</b>	
TIN No. 890-000-265-368	

- The permit holder shall contain its wastewater into the 3-chambered, water-tight and leak-free Primary Wastewater Treatment Facility (Septic Tank).
- The permit holder shall conduct desludging once the septic tank reaches its full capacity to prevent leak/spillage of wastewater and shall secure a **desludging certificate** issued by a City/Municipality Health Office/Department of Health-accredited desludger and a **certificate of treatment** from the treatment facility.
- The permit holder shall allow entry of **authorized DENR-EMB XI personnel to conduct inspection** and other activities for compliance monitoring of subject establishment or facility.
- The permit holder or Pollution Control Officer (PCO) shall submit quarterly **Self-Monitoring Reports (SMR)** to this Bureau in accordance with DENR Administrative Order No. 27 (Series of 2003). The deadline of submission of the SMR shall be fifteen (15) days after the end of each quarter. Submission shall be based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
First	Jan-Mar.	1-15 Apr.	Third	Jul-Sep.	1-15 Oct.
Second	Apr-Jun.	1-15 Jul.	Fourth	Oct-Dec.	1-15 Jan.

- The permit holder or PCO shall report in writing to the Bureau, within 24 hours, **any event that the permittee is temporarily unable to comply with the conditions of the Wastewater Discharge Permit due to a breakdown of any of the installations covered by the permit from occurrence of such breakdown**. The report shall be prepared following the **Environmental Incident Report** format stipulated in Annex 4 of DENR Administrative Order 02 Series of 2014. While the necessary installation is not in operation, **the facility shall temporarily cease to operate if the breakdown will result in a discharge of untreated wastewater or pose an imminent danger to the environment or public health**. Failure to do so shall result in maximum penalty imposed by law and liability for damages.
- In case of sale or legal transfer of a facility covered by this Permit, the permittee shall notify the Department through the Bureau of such and the name and address of the transferee within thirty (30) days from the date of sale or transfer. In case of failure to do so, the permittee shall be liable for any violation of these Rules and Regulations that the transferee may commit by reason of such transfer. It shall be the duty of the transferee to file an application for transfer of the permit within ten (10) days from notification of the Department through the Bureau (Rule 14.14, DENR Administrative Order No.



This is a computer generated certificate. To verify the authenticity of this file, kindly scan the generated QR Code using your QR Code scanner/reader or visit the DENR website for details.



# 7

## AFFORDABLE AND CLEAN ENERGY

The University of Mindanao upholds energy-efficient and sustainable operations across its campuses. To ensure continued progress, the University regularly conducts energy audits and allocates a specific energy budget for each building, fostering accountability and encouraging continuous improvement in energy management. These initiatives not only reduce environmental impact but also demonstrate the University's commitment to responsible energy use and long-term sustainability.

- Energy Efficient Appliances Usage
- Campus-wide energy conservation campaigns
- Incorporation of passive design principles in new building construction
- Implementation of Green Building Concept
- Solar-powered street lights
- LED Luminaires

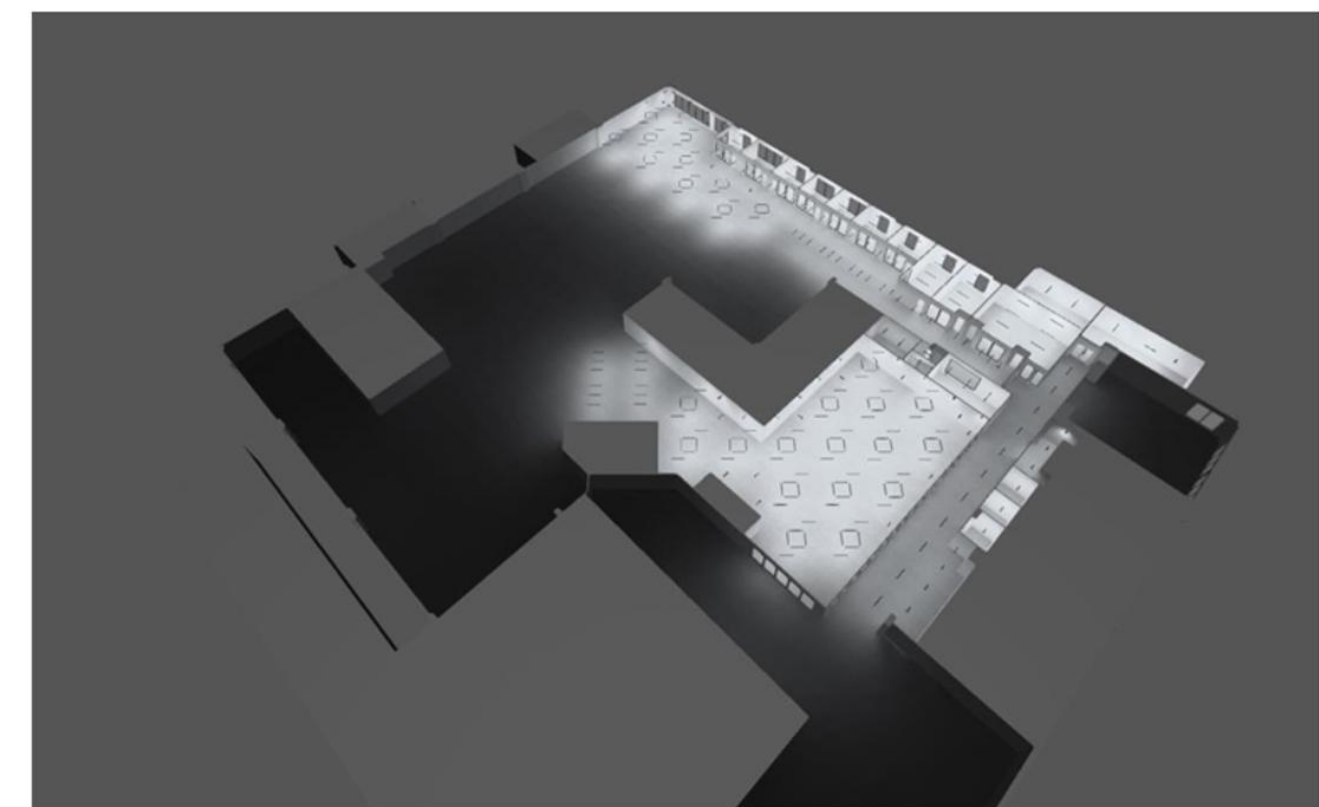




## Implementation of SMART Building Concept

The University of Mindanao-LIC lighting design demonstrates strong electric lighting performance and energy-efficient LED equipment selection. DIALUX data show that functional rooms generally meet the target illuminance values, with low lighting power density and high luminaire efficacy. The project is therefore substantially compliant for electric lighting levels and compliant in intent for high-frequency ballast requirements through the use of LED Luminaires with electronic drivers.

Daylighting, Daylight Glare Control, Electric Lighting Levels, and High-Frequency Ballast / LED Driver Compliance



The university uses LED luminaires across all buildings to significantly reduce energy consumption while providing high-efficiency, long-lasting illumination throughout the campus.



# Energy Efficient Appliances Usage



**253**  
air conditioning  
units

**892**  
ceiling  
fans

The university also installed air conditioning units and ceiling fans across all campus buildings. These figures reflect the institution's energy use and highlight the growing importance of efficient energy management to reduce operational costs while minimizing environmental impact.



**2,231**

The university uses LED luminaries across all buildings to significantly reduce energy consumption while providing high-efficiency, long-lasting illumination throughout the campus.



**67**

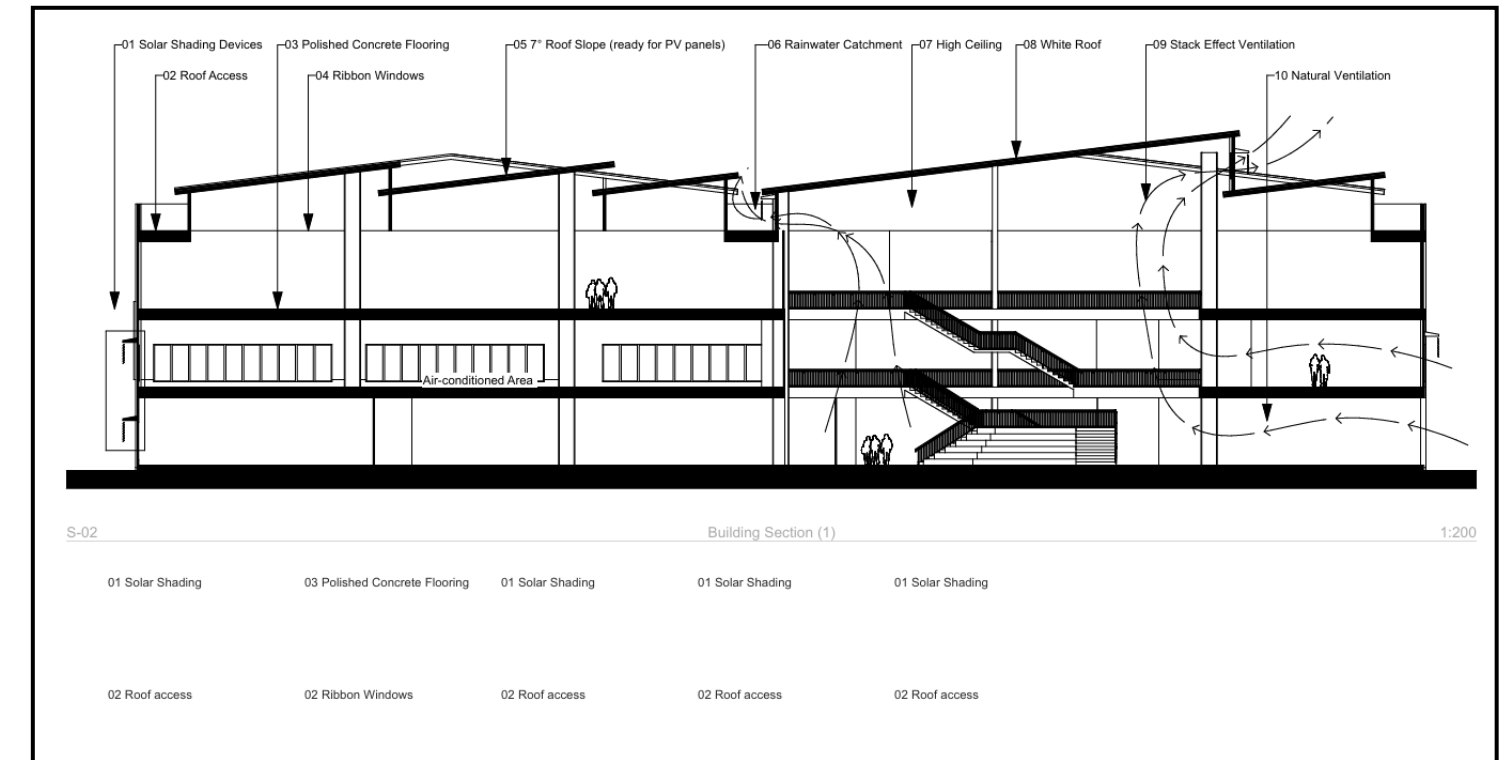
Solar-powered lights have been installed across the campus as part of the university's ongoing efforts to strengthen its energy management strategies. This initiative demonstrates the successful adoption of sustainable lighting technology, reducing reliance on conventional electricity, lowering greenhouse gas emissions, and supporting the university's commitment to a more energy-efficient, environmentally sustainable campus.



# Incorporation of passive design principles in new building construction



This university implements SMART Building concepts through video surveillance systems, high-efficiency luminaires, and an app-based air conditioner management system, enhancing security, energy efficiency, and centralized environmental control.



Designed buildings with integrated passive lighting and vegetation to enhance natural air circulation and maintain cooler temperatures.





# 8

## DECENT WORK AND ECONOMIC GROWTH

The University of Mindanao continues to strengthen its partnerships with various industries, providing students with opportunities for internships, immersion programs, and hands-on experiences directly related to their fields of study. These industry linkages not only enhance the students' practical skills but also improve their employability upon graduation. By aligning academic programs with real-world applications, UM ensures that its graduates are well-equipped to meet the demands of the modern workforce.

- Community Initiatives for Economic Growth
- Environmental Science Students Internship
- Forestry Students Internship
- Agroforestry Students Internship





## Community-Based Rehabilitation and Aftercare Program (CBRAP) in Davao City: The TARA NA Experience

# 11,000

drug reformists across the communities of Los Amigos, Biao Guianga, Biao Escuela, and Maa Magtuod in Davao City.

CBRAP operates as a community-based outpatient program, offering a holistic suite of educational, psychosocial, vocational, therapeutic, and spiritual services to help individuals rebuild their lives and reintegrate as productive, empowered citizens. The initiative follows a three-phase approach: primary care, aftercare, and long-term preventive intervention.



As of 2025, the program has enrolled 3,894 individuals, though challenges remain—over 1,800 dropouts were recorded due to weak support and motivational lapses. Despite this, CBRAP has delivered transformative outcomes for those who remain engaged:

**35** reformists consistently attend Drug Relapse Prevention Seminars, demonstrating improved commitment to recovery.

**19** program graduates launched a sustainable monoblock and table rental enterprise, increasing their income and achieving financial self-reliance.

Barangay leaders have taken on active roles in rehabilitation, resulting in improved local governance, community responsiveness, and reduced stigma toward reformists.



The program's success lies in cross-sector collaboration, especially through the UM Professional Schools, which have driven community organizing, capacity-building, digital innovations, and livelihood initiatives between 2022–2026. Its holistic design makes it a replicable model for other cities seeking to implement inclusive and locally embedded rehabilitation systems that go beyond punitive approaches.



# Environmental Science students join LGU-Maragusan MENRO and CEST Inc. in their Groundwater Assessment for Agusan River Basin

5

Interns from the University of Mindanao-Environmental Science students join LGU-Maragusan MENRO and CEST Inc. in their Groundwater Assessment for the Agusan River Basin.



## THE SURVEY TEAM

composed by NWRB-CEST, MENRO and together with UM-Davao Environmental Science Students



## Barangay Mapawa



## Barangay Magcagong



17

Barangays have successfully surveyed the following Barangays, including Coronobe, New Albay, Lahi, Talian, Tupas, Katipunan, Cambagang, Pamintaran, Magcagong, New Katipunan, Mapawa, New Panay, New Manay, Paloc, Parasanon, Mahayahay, Poblacion, Bagong Silang, and Tigbao.

The survey team is composed of NWRB-CEST technical staff, MENRO Staff, UM-Davao Environmental Science students, and Barangay Officials concerned.



# Environmental Science Student Engagement in Environmental Assessment, Monitoring, and Sustainability

3

In the BS Environmental Science program at the University of Mindanao, students were provided meaningful opportunities to engage in environmental assessment, management, and regulatory compliance activities. As part of their On-the-Job Training (OJT), the students were deployed at the MIT Center for Sustainable Resource Management, where they gained hands-on experience in real-world environmental work settings.



Beyond technical training, the students were introduced to environmental policies, regulations, and professional practices through participation in activities such as Pollution Control Officer (PCO) training and other professional development initiatives. These experiences helped bridge theoretical knowledge and real-world environmental challenges, preparing them to contribute effectively to environmental protection, sustainable development, and responsible resource management.



Through these experiential learning opportunities, the University of Mindanao continues to strengthen sustainability education by equipping Environmental Science students with the knowledge, skills, and practical competencies necessary to address contemporary environmental issues and support sustainable development initiatives.

Their training included participation in Environmental Impact Assessment (EIA) activities, where they gained an understanding of the processes involved in evaluating the environmental implications of development projects. Exposure to environmental compliance monitoring enabled the students to observe and assist in site inspections conducted to assess adherence to the conditions and commitments stipulated in Environmental Compliance Certificates (ECCs).



# Forestry Internship Program at the Department of Environment and Natural Resource and Davao City Environment and Natural Resources

10

Forestry students from the University of Mindanao completed their internship with the City Environment and Natural Resources Office (City-ENRO). During the internship, the trainees were divided into three groups and assigned to different units of the Community Environment and Natural Resources Office (CENRO) under the Department of Environment and Natural Resources (DENR). This arrangement provided them with hands-on exposure to various aspects of environmental and natural resource management while working closely with government personnel and gaining practical experience in the field.



Throughout the training, the interns participated in field and office activities, including water-quality sampling, bird observation, and area surveys. They worked with staff from CENRO, the Provincial Environment and Natural Resources Office (PENRO), and the Regional Development Executive Committee (RDEC) in activities related to Community-Based Forest Management (CBFM). These experiences helped them develop practical skills in environmental monitoring and resource assessment.

The interns also joined field operations in Malabog, Paquibato District, where they assisted in validating and processing applications for Certificates of Stewardship Contracts (CSC) under the guidance of the Enforcement Monitoring System (EMS) Officer. In addition, they participated in wildlife monitoring at the Crocodile Park and observed procedures for wildlife transportation permit applications.

Overall, the internship served as a valuable learning opportunity that enhanced the interns' knowledge, skills, and appreciation of environmental conservation, wildlife management, forestry practices, and sustainable natural resource management.





## BS - Agroforestry students successfully completed a 240-hour On-the-Job Training at Mt. Apo Science Foundation College in Eden, Bayabas, Toril, Davao City

# 15

Students completed their 240-hour On-the-Job Training (OJT) through various hands-on agricultural and nursery management activities. These included vegetable planting, fruit tree propagation through grafting and marcotting, nursery maintenance, banana harvesting, cocoa harvesting and product tasting, and the preparation of raw materials for vermicomposting. These activities provided practical experience in sustainable agriculture, plant propagation, organic waste management, and crop production.



Through active participation in these activities, students gained valuable technical skills while contributing to sustainable food production and environmental stewardship. The propagation of fruit trees and the cultivation of vegetables support the availability of quality planting materials and promote climate-resilient agricultural practices. Likewise, vermicomposting promotes the use of organic waste and nutrient recycling, reducing environmental impacts while improving soil health.

These experiential learning activities demonstrate the university's commitment to sustainability education by equipping students with practical competencies in sustainable agriculture, resource conservation, and community-based livelihood development.





## 9 INDUSTRY, INNOVATION, AND INFRASTRUCTURE

The University of Mindanao has a strong focus on research and development as well as sustainable campus infrastructure. Faculty and student-led research contribute innovative solutions that address local and global challenges, while continuously building development to ensure modern, resilient, and environmentally responsible facilities. These efforts highlight the University's commitment to fostering innovation, supporting academic excellence, and building infrastructure that promotes inclusive and sustainable growth.

- StabiLign: Sustainable Lignin-Based Soil Stabilizer Technology from Waste Wood and Recycled Concrete for Pavements
- The University of Mindanao's Library: A Hub of Learning in Mindanao
- RePET: Reinforced Waste PET (Polyethylene Terephthalate) bottle-derived 3D Printing Thermoplastic Filament with Carbon Nanomaterials from Durian Rinds
- Engineered Smart Concrete Utilizing Indigenous Wastes for Durable and Intelligent Infrastructure

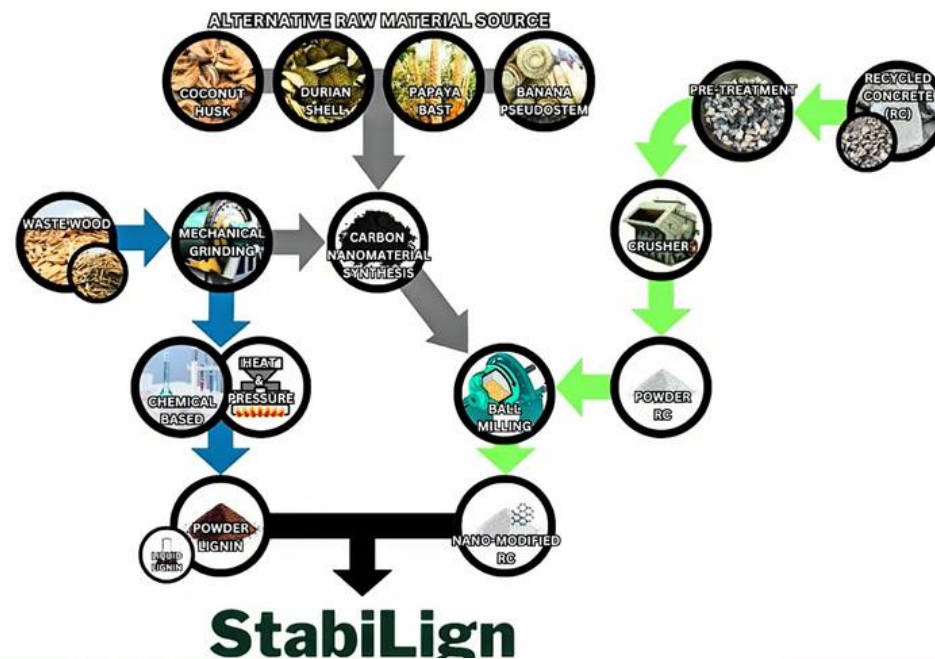




# StabiLign: Sustainable Lignin-Based Soil Stabilizer Technology from Waste Wood and Recycled Concrete for Pavements

StabiLign is a research-driven innovation focused on developing a sustainable soil stabilizer made from lignin extracted from coconut wood sawdust and recycled concrete aggregates (RCA). The project aims to enhance the mechanical properties and long-term durability of pavement subgrades while promoting circular economy principles in road construction.

Specifically, it seeks to: (1) characterize lignin and carbon nanomaterials from wood and agricultural waste; (2) synthesize and test a nano-modified RCA and lignin-based stabilizer; (3) optimize its composition for moisture control and strength; (4) evaluate its durability under environmental stress; and (5) develop application guidelines for practical use.



In its first year, the StabiLign project focused on the synthesis and characterization of key components for a sustainable soil stabilizer: sodium lignosulfonate (SLS) extracted from coconut wood sawdust and recycled concrete aggregates (RCA) processed through mechanical ball milling. The extracted lignin was characterized using FTIR and TGA, confirming its chemical structure and thermal properties for further application. RCA was milled to fine powder form, preparing it for future integration into a composite stabilizer blend.

Geotechnical characterization was completed at three candidate sites in Kidapawan City in collaboration with DPWH Region XI. Based on initial CBR test results, Site 3 was selected as the pilot location, having the weakest soil strength with a CBR value of 6.7%, along with a low maximum dry density of 7.6 kN/m<sup>3</sup> and high optimum moisture content of 37.5%.

Preliminary pH tests showed that 0.5% lignin increased soil alkalinity after 24 hours of curing, suggesting promising chemical reactivity with local expansive soils. These outcomes lay a strong foundation for the next project phase, which will include component blending and mechanical strength testing for site 3.

With the successful completion of component synthesis and site characterization, the StabiLign project is now entering its optimization and performance testing phase. The following steps will involve the blending of sodium lignosulfonate and nano-RCA with locally sourced expansive soil from Site 3 in Kidapawan City, followed by a comprehensive set of geotechnical tests, including California Bearing Ratio (CBR),



Unconfined Compressive Strength (UCS), and Triaxial Shear Testing under various curing durations. These tests aim to evaluate the stabilizer's effectiveness in enhancing soil strength, structural integrity, and deformation behavior under realistic stress conditions. StabiLign remains committed to advancing sustainable, waste-based infrastructure solutions for climate-resilient development.



# The University of Mindanao's Library: A Hub of Learning in Mindanao



The first and second floors are fully equipped with shelves of curated collections, spacious reading tables, comfortable chairs, and lounge-style sofas—intended to serve students, faculty, and university personnel. On the ground floor, 14 bookable discussion rooms provide private spaces for group work and academic collaboration, while a newly constructed audio-visual room caters to smaller functions and multimedia-based learning.

Atop the building, the third floor houses a modern convention center, ideal for meetings, seminars, and academic conferences.



## 1.2 hectares

The University of Mindanao holds the title of the largest library in Mindanao. The three-story library stands as a landmark of academic excellence and innovation. The library is designed to accommodate **2,000** individuals.



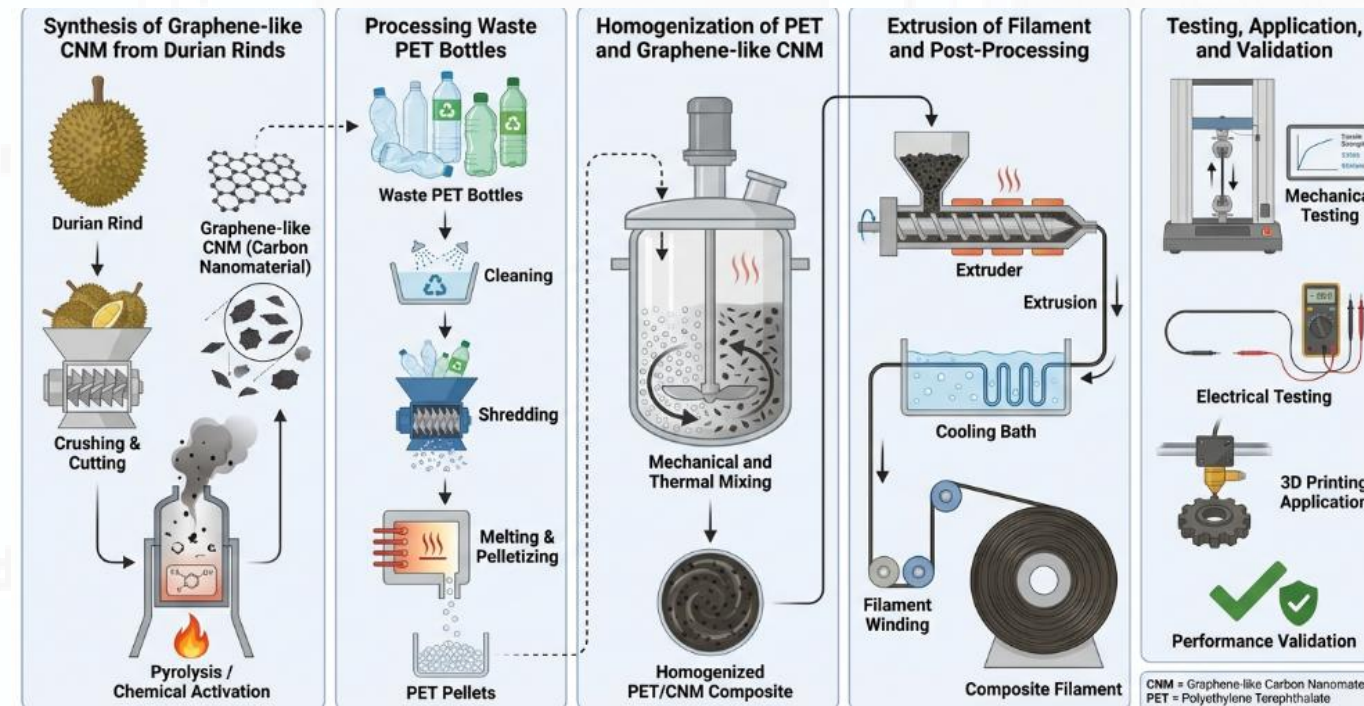
More than just a repository of knowledge, the new UM Library reflects the university's commitment to state-of-the-art facilities and a safe, healthy, and inclusive learning environment—a direct expression of its core quality objectives. With its impressive scale and intentional design, the library serves as both a functional space and a symbol of UM's dedication to fostering a culture of lifelong learning.



# RePET: Reinforced Waste PET (Polyethylene Terephthalate) bottle-derived 3D Printing Thermoplastic Filament with Carbon Nanomaterials from Durian Rinds

RePET, led by Mark Angelou M. Siega, MSc., with Engr. Julius M. Rosalia and Engr. Jayvee Moore S. Dy, as a project team member, is a research-based innovation that converts used PET plastic bottles and discarded durian peels into sustainable 3D-printing filament. The project aims to reduce plastic and agricultural waste while providing an eco-friendly alternative to imported 3D-printing materials. It involves recycling PET bottles into plastic pellets and processing durian peels into graphene-like carbon particles that reinforce the filament. Specifically, RePET seeks to: (1) collect and recycle PET beverage bottles into clean plastic pellets; (2) transform durian peels into very fine carbon particles that can strengthen plastic; (3) combine these two waste-derived materials into a single 3D-printing filament; (4) test the filament's strength, flexibility, and heat resistance; and (5) demonstrate its use in printing simple tools and parts for everyday and industrial applications.

In its first phase, the project focuses on preparing and understanding the key components of the filament. Used PET bottles are washed, cut, shredded, and melted into pellets that serve as the main plastic ingredient. Durian peels from local markets and farms are boiled, cleaned, and broken down into fibers, which are then treated and heated to form tiny graphene-like carbon particles. These particles are examined under a microscope and through thermal tests to confirm their suitability as a reinforcing additive.



The recycled PET pellets are then mixed with the durian-based carbon powder and processed in an extruder to form long, thin, spaghetti-like strands of filament that fit standard 3D printers. The new filament is tested for its strength, how much it can stretch before breaking, how it behaves under heat, and how well it prints. Sample objects such as holders, brackets, and simple fixtures are produced with partner 3D-printing hubs to check if the filament can handle real-world use.

By turning two problem wastes into a useful material, RePET helps reduce trash sent to landfills and oceans, lessens dependence on imported plastic filaments, and opens opportunities for new green jobs in collection, processing, and 3D printing services. The project supports sustainable development by promoting responsible consumption and production, encouraging innovation in local manufacturing, and contributing to climate-friendly, circular-economy solutions in the Philippines. RePET can be clearly linked to three main Sustainable Development Goals (SDGs) of the United Nations: SDG 9, SDG 12, and SDG 13.



# Engineered Smart Concrete Utilizing Indigenous Wastes for Durable and Intelligent Infrastructure

The Smart Concrete project addresses critical infrastructure challenges such as microcrack propagation in public structures like bridges and schools, which compromise safety and incur high maintenance costs. Funded by the DOST-PCIEERD, the project was implemented from August 2021 to January 2024 by the University of Mindanao.

Its core innovation lies in two complementary technologies: a self-healing additive that autonomously fills 70% of microcracks (0.4–0.6 mm) within 7 days, and a self-sensing additive that enables real-time structural monitoring through a portable health monitoring device. Both additives are introduced at just 1% cement replacement, resulting in up to 10% reduction in material costs and contributing to lower lifecycle maintenance expenditures.

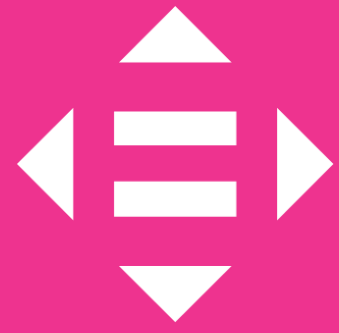


Key activities included additive formulation using indigenous agricultural waste—such as banana pseudostem, coconut husk, durian rind, and papaya bast fibers—nanomaterial synthesis, laboratory testing, pilot concrete fabrication, and monitoring demonstrations. By partially replacing cement with waste-derived materials, the project contributes to reducing CO<sub>2</sub> emissions by approximately 0.09 kg per kg of cement replaced, helping lower the overall carbon footprint of construction. This aligns with global climate goals while promoting circular economy practices. The Smart Concrete project delivered significant technical, environmental, and institutional outcomes.

Laboratory and pilot evaluations confirmed that the self-healing additive could close up to 70% of surface microcracks (0.4–0.6 mm) within 7 days while enhancing compressive and flexural strength. The self-sensing additive reduced electrical resistivity by over 36%, enabling early damage detection through conductivity measurements. A portable structural health monitoring (SHM) device was developed and successfully tested demonstrating effective real-time tracking of strain and crack growth.

The project earned national and global recognition. It was featured at PhilConstruct 2023–2024 and selected as the sole Philippine entry to the Top 100 innovations at the Prototypes for Humanity 2024 Exhibition in Dubai, UAE—chosen from over 2,700 entries submitted by 800+ universities worldwide.





# 10 REDUCED INEQUALITIES



The University of Mindanao upholds the principle of inclusivity by ensuring that all students, including persons with disabilities (PWDs), have equal access to education and campus resources. The university continues to improve its facilities to be more accessible and accommodating, including installing ramps, elevators, and designated pathways to facilitate mobility across buildings. Support services and inclusive policies are also in place to assist PWDs in their academic journey, promoting a learning environment where everyone is treated with dignity and respect.

- Disability Support Services
- Non-Discrimination Against Women Policy
- Diversity and Inclusion Policy
- Reporting Discriminatory Policy





## Campus facilities for disable, special needs, and or maternity care



In support of accessibility and inclusivity, the University of Mindanao also provides **Persons with Disabilities (PWD)-friendly comfort rooms** strategically located within the campus. These facilities are designed to accommodate the needs of persons with disabilities by ensuring ease of access, mobility, safety, and convenience, reflecting the University's commitment to creating an inclusive and barrier-free environment for all members of the academic community.



The University of Mindanao remains steadfast in its commitment to promoting the health, wellness, inclusivity, and overall well-being of its students, faculty, and non-academic personnel by providing accessible and supportive facilities within the campus. All campus buildings are provided with at least one or a complete set of fully functional facilities and accessibility features for PWDs.



Furthermore, the University provides **designated parking spaces for persons with disabilities (PWDs)** to ensure accessible, safe, and convenient mobility within the campus. These reserved parking areas are strategically located to provide easier access to university facilities and services, demonstrating the institution's dedication to equal access, mobility support, and a more inclusive campus experience.



# Inclusive policies are also in place to assist PWDs in their academic journey, promoting a learning environment where everyone is treated with dignity and respect.

## Non-Discrimination Against Women Policy

The University of Mindanao is committed to creating an environment that promotes and protects the rights of women and prevents all forms of discrimination in compliance with existing laws. This policy applies to all members of the University community, including directors, officers, employees, students, parents, and other stakeholders.

Policy link:

<https://umindanao.edu.ph/governance/policies/file/gz52pplbs0odbqqoqtsi2x6eutl28pm#gsc.tab=0>

## Policy on Diversity and Inclusion

The University of Mindanao is committed to promoting equality, diversity, and inclusion by fostering a learning and working environment that values fairness, respect, and equal opportunities for all. The University prohibits discrimination, bullying, and harassment on the basis of gender, sexual orientation, age, marital status, pregnancy, social status, political beliefs, religion, ethnicity, disability, or any other personal characteristic unrelated to an individual's ability to work or learn. This policy applies to all employees, students, and stakeholders and covers all aspects of university operations, including employment, education, and service delivery.

Policy link:

<https://umindanao.edu.ph/governance/policies/file/4lib9hqq11gvtvqwi3lt1f47pvhh2x0d#gsc.tab=0>

## Reporting Discriminatory Policy

The University of Mindanao is committed to maintaining a fair, inclusive, and discrimination-free environment by providing clear procedures for reporting incidents of discrimination, harassment, and retaliation. Guided by the principles of diversity, fairness, respect, equality, confidentiality, and due process, the policy applies to all employees, students, partners, and stakeholders, ensuring that concerns are addressed appropriately and that individuals are protected from retaliation.

Policy link:

<https://umindanao.edu.ph/governance/policies/file/b4aodd8fgdfh5piqxz4fgriz8khs054s#gsc.tab=0>



# 11

## SUSTAINABLE CITIES AND COMMUNITIES



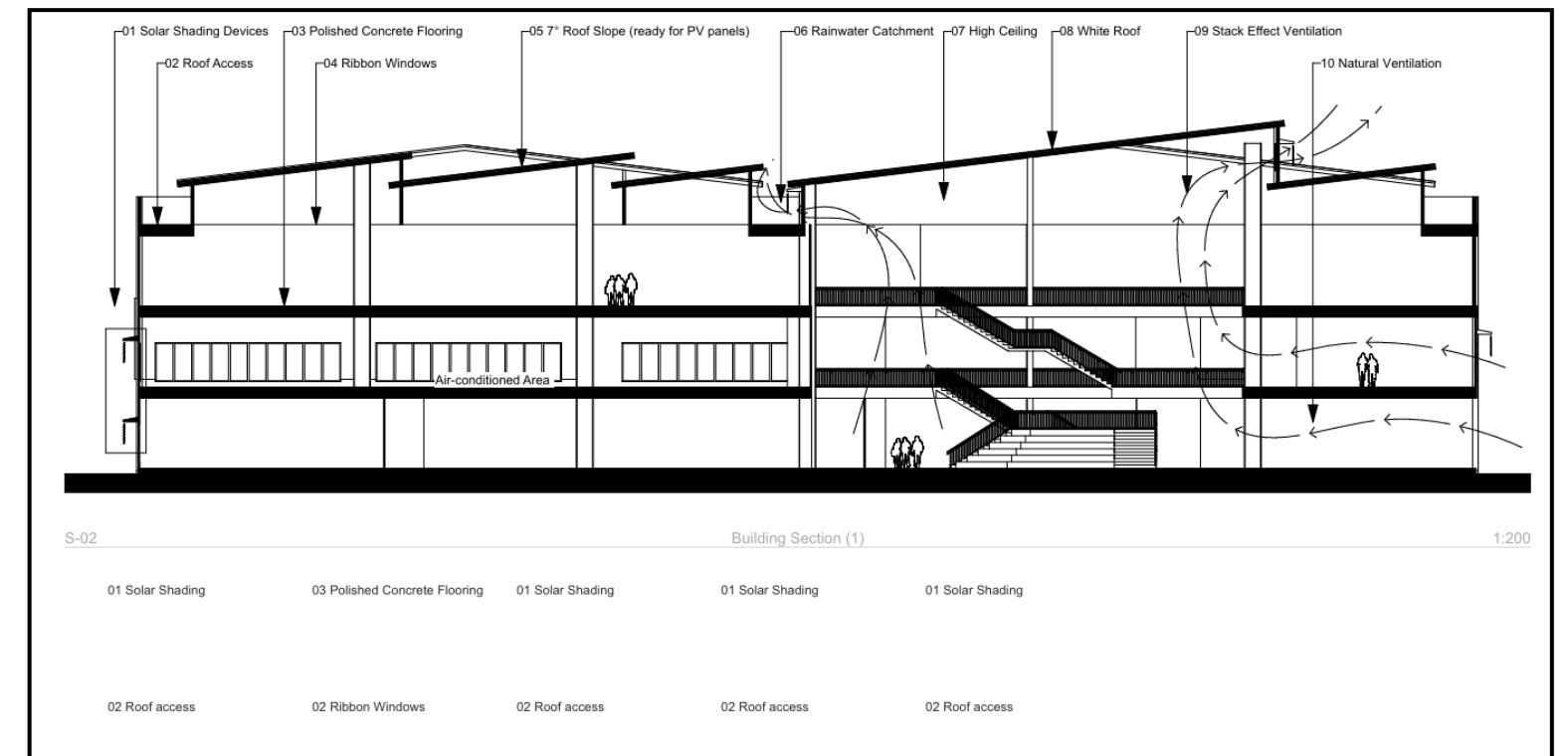
The University of Mindanao promotes sustainable cities and communities through innovative infrastructure and research initiatives that support environmental sustainability and urban resilience. These include the provision of bicycle parking facilities to encourage sustainable transportation and research on engineered smart concrete utilizing indigenous waste materials to develop durable, resource-efficient, and intelligent infrastructure solutions. Through these efforts, the University contributes to creating safer, more sustainable, and resilient communities while advancing innovation for sustainable development.

- Building Smart Solutions through Intelligent Infrastructure
- Bicycle Parking Facilities
- Engineered Smart Concrete Utilizing Indigenous Wastes for Durable and Intelligent Infrastructure





# Incorporation of passive design principles in new building construction



Designed buildings with integrated passive lighting and vegetation to enhance natural air circulation and maintain cooler temperatures.

This university implements SMART Building concepts through video surveillance systems, high-efficiency luminaires, and an app-based air conditioner management system, enhancing security, energy efficiency, and centralized environmental control.





# Onwards to a more Sustainable Community

The university operates four (4) student transport vehicles serving the campus community from Monday to Saturday, with daily operating hours from 6:30 AM to 10:00 PM, averaging 11 trips/hour. Each vehicle has a seating capacity of eighteen (18) passengers per trip and is free of charge, enabling the university to accommodate a substantial number of commuters daily and provide efficient inter-building mobility across the campus.



Encourages active and emission-free mobility by offering free bicycle access within the campus.

These pedestrian facilities are strategically located and interconnected to provide convenient access to major academic buildings, offices, parking areas, and student service facilities. The network of covered pathways and pedestrian routes, designed to protect campus users from varying weather conditions and to improve overall walkability within the university.





# Engineered Smart Concrete Utilizing Indigenous Wastes for Durable and Intelligent Infrastructure

The Smart Concrete project addresses critical infrastructure challenges such as microcrack propagation in public structures like bridges and schools, which compromise safety and incur high maintenance costs. Funded by the DOST-PCIEERD, the project was implemented from August 2021 to January 2024 by the University of Mindanao.

Its core innovation lies in two complementary technologies: a self-healing additive that autonomously fills 70% of microcracks (0.4–0.6 mm) within 7 days, and a self-sensing additive that enables real-time structural monitoring through a portable health monitoring device. Both additives are introduced at just 1% cement replacement, resulting in up to 10% reduction in material costs and contributing to lower lifecycle maintenance expenditures.



Key activities included additive formulation using indigenous agricultural waste—such as banana pseudostem, coconut husk, durian rind, and papaya bast fibers—nanomaterial synthesis, laboratory testing, pilot concrete fabrication, and monitoring demonstrations by partially replacing cement with waste-derived materials, the project contributes to reducing CO<sub>2</sub> emissions by approximately 0.09 kg per kg of cement replaced, helping lower the overall carbon footprint of construction. This aligns with global climate goals while promoting circular economy practices. The Smart Concrete project delivered significant technical, environmental, and institutional outcomes.

Laboratory and pilot evaluations confirmed that the self-healing additive could close up to 70% of surface microcracks (0.4–0.6 mm) within 7 days while enhancing compressive and flexural strength. The self-sensing additive reduced electrical resistivity by over 36%, enabling early damage detection through conductivity measurements. A portable structural health monitoring (SHM) device was developed and successfully tested demonstrating effective real-time tracking of strain and crack growth.

The project earned national and global recognition. It was featured at PhilConstruct 2023–2024 and selected as the sole Philippine entry to the Top 100 innovations at the Prototypes for Humanity 2024 Exhibition in Dubai, UAE—chosen from over 2,700 entries submitted by 800+ universities worldwide.





# 12 RESPONSIBLE CONSUMPTION AND PRODUCTION

The University of Mindanao promotes responsible consumption and production through sustainable resource management, waste reduction initiatives, and environmental awareness programs. The University implements solid waste management practices, encourages waste segregation and recycling, and supports the efficient use of water, energy, and other resources across its campuses. Through academic instruction, research, and community extension activities, UM raises awareness on sustainable consumption practices and environmental responsibility among students, employees, and stakeholders. These efforts reflect the University's commitment to minimizing environmental impacts, promoting resource efficiency, and fostering a culture of sustainability within and beyond the campus community.

- Center of Green Nanotechnology Innovations for Environmental Solutions (CGNIES)
- UM Projects in Action
- Disposal of Hazardous Waste Policy





# Center of Green Nanotechnology Innovations for Environmental Solutions (CGNIES)

The Center of Green Nanotechnology Innovations for Environmental Solutions (CGNIES) at the University of Mindanao is the pioneering nanotechnology hub in Mindanao, established to spearhead nano-innovation efforts that address key environmental challenges in Davao Region and across the island.

Anchored on green chemistry principles, the Center prioritizes toxicity prevention by developing nanomaterials from Region XI's indigenous resources and integrating these into micro- and macro-scale systems to create sustainable technological solutions.

The CGNIES project is led by Dr. Chosel P. Lawagon and is funded by the Department of Science and Technology - Philippine Council for Industry, Energy, and Emerging Technology Research and Development (DOST-PCIEERD) through its Institutional Development Program (IDP) under the Human Resource and Institution Development Division (HRIDD).



**Chosel P. Lawagon, Ph.D.**

ASEAN-US Science Prize for Women National Finalist  
Green Talents Awardee From German Federal Ministry of  
Education and Research (BMBF)  
Balik Scientist Program Awardee Department of Science and  
Technology – PCIEERD

## 9 Research Projects Funded by DOST

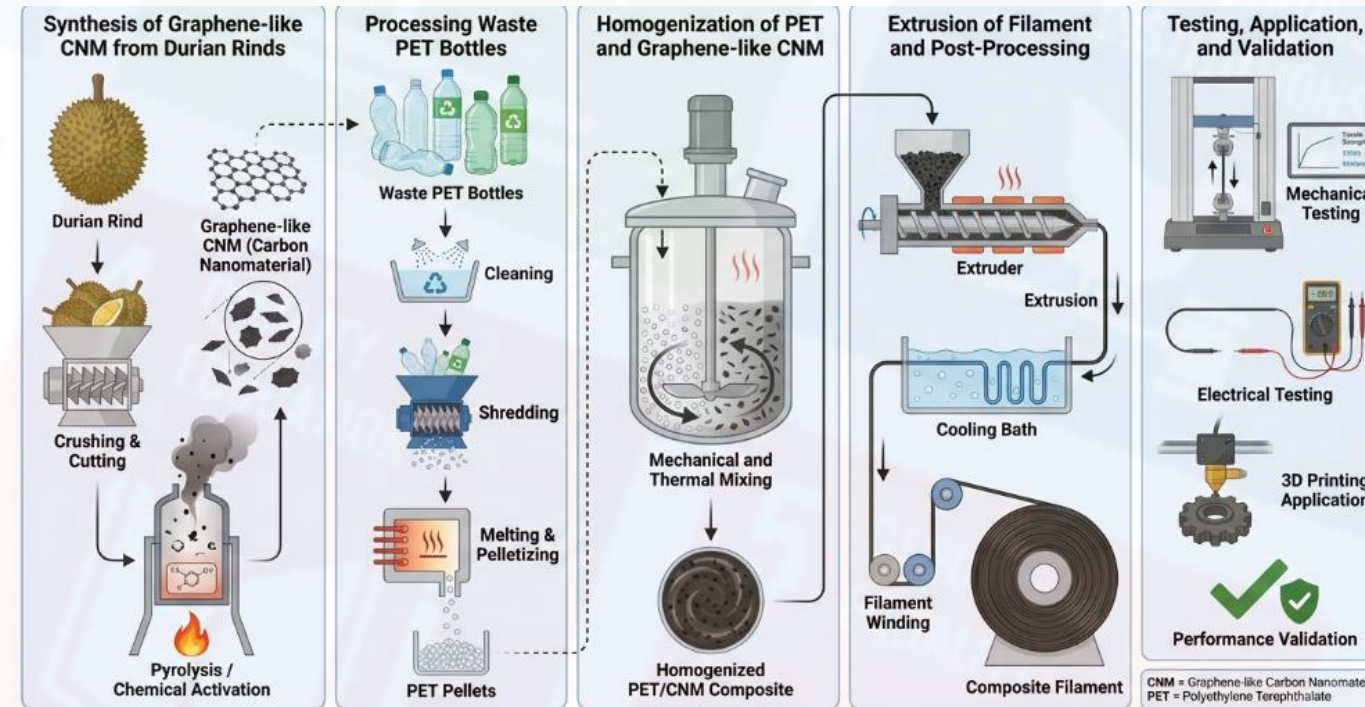




# RePET: Reinforced Waste PET (Polyethylene Terephthalate) bottle-derived 3D Printing Thermoplastic Filament with Carbon Nanomaterials from Durian Rinds

RePET, led by Mark Angelou M. Siega, MSc., with Engr. Julius M. Rosalia and Engr. Jayvee Moore S. Dy, as a project team member, is a research-based innovation that converts used PET plastic bottles and discarded durian peels into sustainable 3D-printing filament. The project aims to reduce plastic and agricultural waste while providing an eco-friendly alternative to imported 3D-printing materials. It involves recycling PET bottles into plastic pellets and processing durian peels into graphene-like carbon particles that reinforce the filament. Specifically, RePET seeks to: (1) collect and recycle PET beverage bottles into clean plastic pellets; (2) transform durian peels into very fine carbon particles that can strengthen plastic; (3) combine these two waste-derived materials into a single 3D-printing filament; (4) test the filament's strength, flexibility, and heat resistance; and (5) demonstrate its use in printing simple tools and parts for everyday and industrial applications.

In its first phase, the project focuses on preparing and understanding the key components of the filament. Used PET bottles are washed, cut, shredded, and melted into pellets that serve as the main plastic ingredient. Durian peels from local markets and farms are boiled, cleaned, and broken down into fibers, which are then treated and heated to form tiny graphene-like carbon particles. These particles are examined under a microscope and through thermal tests to confirm their suitability as a reinforcing additive.



The recycled PET pellets are then mixed with the durian-based carbon powder and processed in an extruder to form long, thin, spaghetti-like strands of filament that fit standard 3D printers. The new filament is tested for its strength, how much it can stretch before breaking, how it behaves under heat, and how well it prints. Sample objects such as holders, brackets, and simple fixtures are produced with partner 3D-printing hubs to check if the filament can handle real-world use.

By turning two problem wastes into a useful material, RePET helps reduce trash sent to landfills and oceans, lessens dependence on imported plastic filaments, and opens opportunities for new green jobs in collection, processing, and 3D printing services. The project supports sustainable development by promoting responsible consumption and production, encouraging innovation in local manufacturing, and contributing to climate-friendly, circular-economy solutions in the Philippines. RePET can be clearly linked to three main Sustainable Development Goals (SDGs) of the United Nations: SDG 9, SDG 12, and SDG 13.





# Closing the Loop: A Clean Technology for Recovering Valuables from Waste Lithium-Ion Batteries



**1** working prototype of the recovery system was successfully developed.

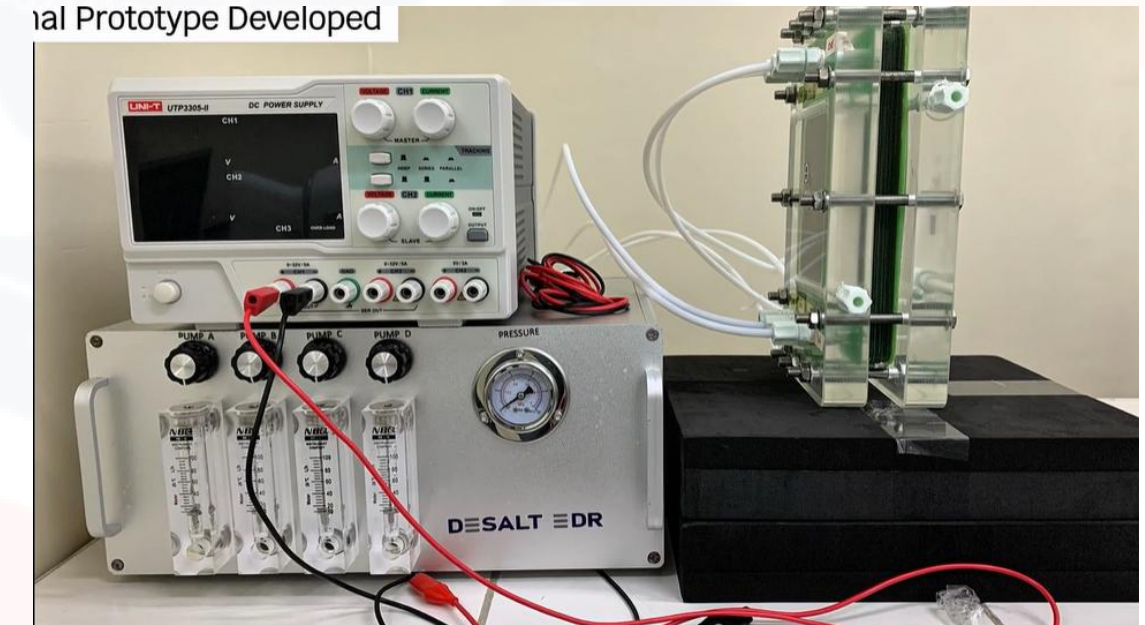
**6** student researchers (5 undergraduate and 1 graduate student in Chemical Engineering) were supported through thesis and field research.

**1** scientific article was published in a peer-reviewed journal, with 3 more manuscripts under review.

- A policy brief led to Resolution No. 5, adopted by the Regional Research, Development, and Innovation Council XI (RRDIC-XI), urging LGUs to establish local ordinances for safe battery disposal.
- Formal coordination has begun with the City Planning and Development Office of Davao to push for city-level policy integration.
- Industry partnerships were built with Radicor Metal Manufacturing and PC Bee Davao, with project funding from the Department of Science and Technology (DOST).

Through public awareness campaigns, policy presentations, and inter-agency dialogues, the project is expanding its reach beyond the lab—educating citizens, empowering students, and helping government agencies take informed action on e-waste.

Final Prototype Developed



The project has demonstrated a successful model for clean and sustainable recovery of cobalt and lithium from waste lithium-ion batteries, addressing both environmental and policy gaps. Major achievements include the development of an efficient electro dialysis system with bipolar membranes, support for 6 student research projects, publication of 1 peer-reviewed article, with more in progress, and the endorsement of Resolution No. 5 by RRDIC-XI. The components strengthen local governance while technology addresses critical gaps in waste management, resource recovery, and environmental protection.





# 13 CLIMATE ACTION

The University of Mindanao, through its Alumni Affairs Office and Community Extension Center, actively contributes to environmental sustainability by initiating tree-planting activities in various locations, including Loleng's Mountain Spring Resort and the Lasang areas, both known for their rich natural landscapes. These initiatives are part of the university's broader effort to promote ecological balance and environmental awareness, while also engaging alumni in meaningful activities that give back to nature. By planting trees in these areas, UM supports reforestation efforts and biodiversity conservation. In addition to off-campus initiatives, the university ensures that all trees and greenery within its campuses are well cared for and maintained. Landscaping efforts are consistently implemented to preserve the campus's green spaces, which contribute to a more sustainable and welcoming learning environment.

- UM Champions Environmental Stewardship
- Tree growing program at Agroforestry Demonstration Farm
- Mapping of green spaces
- Energy-efficient appliances





# SAGIP KALIKASAN: Sustainable Action for Greener Initiative through Partnership



1,000

narra seedlings were planted during the UMBC's Founding Anniversary

500

seedlings were planted by the 196 Senior Highschool students of Nazareth High School

3,500

seedlings were planted by the NSTP-CWTS students



The SAGIP KALIKASAN Program, which stands for Sustainable Action for a Greener Initiative through Partnership, is the institutional environmental advocacy initiative of the Community Extension Center of UM Bansalan College.

700

seedlings were planted at Sitio Balagunon, Managa

1,000

Narra Seedlings were planted later that year at a 4-hectare land of Diocese of Digos

3,500

seedlings were planted by the NSTP-CWTS students



8,700

native and bamboo seedlings, demonstrating the unwavering community commitment to environmental restoration and disaster risk reduction.

The initiative aims to plant 5,000 bamboo seedlings, with the active participation of LGU-Bansalan officials, barangay local government unit (BLGU) officials, Barangay Tribal Councils, and Sangguniang Kabataan (SK) officials from all 25 barangays of the municipality.



# Greening the Future: UM Strengthens Environmental Efforts Through Mangrove Tree Planting



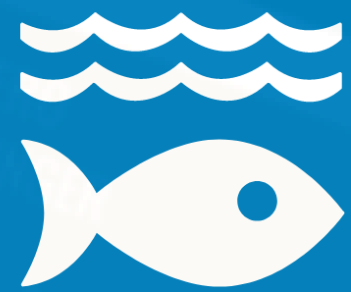
The University of Mindanao, spearheaded by the Alumni Affairs Office, conducted a back-to-back tree planting activity.

The event brought together 65 participants from various UM alumni chapters and partner offices, turning the day into a vibrant display of environmental commitment and community spirit.

To help combat environmental issues, the university spearheaded the event to promote sustainability and protect the life below water and land. As mangrove trees are pivotal in maintaining coastal ecosystems, they also serve as a natural barrier against storms and typhoons and also a great habitat for various marine species.



The event is not only aimed at reforesting coastal areas but also a call to action to strengthen the raising awareness of the significance of preserving our ecosystem. This active involvement just showed the university's unwavering commitment to supporting environmental conservation.

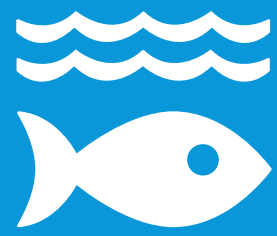


# 14 LIFE BELOW WATER

The University of Mindanao makes sure that life below water is well protected by promoting responsible practices that reduce pollution and safeguard aquatic ecosystems. Various initiatives involving both students and staff are actively implemented to raise awareness, encourage participation, and strengthen the fight against climate change.

- 36 Sacks of Garbage Collected in UM-Led Coastal Clean-Up in Davao City
- Tides of Change: CAE Interns Lead Coastal Clean-Up for a Sustainable Future





# Tides of Change: CAE Interns Lead Coastal Clean-Up for a Sustainable Future

**23** environmental and community-based initiatives conducted by the Community Extension Center, including its participation in the National Coastal Clean-Up Month through a coastal clean-up drive held on September 20, 2025, at Tambongon, Lasang, Davao City. The initiative was led by the UM Main Campus – Community Extension Center and the UM Administrative Employees Association, in partnership with the Davao City Agriculturist Office, Barangay Lasang, and the Tambongon Fisherfolk Association (TAMFIAS). These activities demonstrate the University's continuing efforts to promote environmental stewardship, community engagement, and sustainable development.



The College of Accounting Education (CAE) of the University of Mindanao took a proactive step toward environmental stewardship through its initiative, “Tides of Change: CAE Coastal Clean-Up,” held on September 27, 2025, at Tambongon, Lasang, Davao City.

With a strong sense of purpose and community, CAE interns worked hand in hand to collect waste, clear the shoreline, and help restore the natural beauty of the coastal area. This initiative was more than a clean-up activity—it was a commitment to sustainability and collective responsibility for the environment.



The success of the initiative was made possible through the leadership of Ms. Myra T. Miraflores, CPA, MSA, Internship Coordinator, whose guidance and dedication ensured the smooth execution of the activity. Her mentorship empowered the student officers and interns to take ownership of the event and uphold the university's advocacy for sustainability.

The activity reinforced the spirit of volunteerism and environmental responsibility among the participants.



## 36 Sacks of Garbage Collected in UM-Led Coastal Clean-Up in Davao City



A total of 25 UM personnel and 14 TAMFIAS volunteers collected 36 sacks of garbage from the coastline. The City Environment and Natural Resources Office (CENRO) will oversee proper waste disposal, while recyclable plastics will be repurposed for fish cage construction, aligning the project with sustainable practices.

The activity supports and promotes marine conservation by protecting coastal ecosystems and reducing pollution.

The University of Mindanao strengthened its commitment to environmental sustainability by joining the National Coastal Clean-Up Month through a coastal clean-up drive held on September 20, 2025, at Tambongon, Lasang, Davao City.

The initiative was led by the UM Main Campus – Community Extension Center and the UM Administrative Employees Association, in partnership with the Davao City Agriculturist Office, Barangay Lasang, and the Tambongon Fisherfolk Association (TAMFIAS).



Community members expressed their appreciation, noting the positive impact of the initiative on preserving Tambongon's coastal environment. The area is especially significant as it contributes nearly 30 percent of Davao City's seafood supply.

Through this initiative, UM reaffirmed its dedication to environmental protection, community engagement, and sustainable development, underscoring its role in shaping a cleaner and healthier future for both people and marine ecosystems.



# 15 LIFE ON LAND

The University of Mindanao actively supports the preservation and protection of biodiversity, recognizing the importance of maintaining a balanced ecosystem for both plants and animals. Green spaces across the campus are maintained not only for aesthetic purposes but also as safe habitats for various forms of life. Through tree planting activities, proper waste management, and responsible landscaping practices, the university helps sustain native plant species and minimize harm to wildlife. These actions reflect UM's broader commitment to environmental stewardship.

- Responsible Plastic Use
- Greening program
- Energy Efficient Appliances






# UM Promotes Environmental Responsibility with Plastic Waste Containers on Campus

In a continued effort to promote environmental awareness and sustainability, the University of Mindanao has installed designated plastic waste containers across UM Bolton and Matina Campuses.



**10**

Plastic waste containers were installed around the Matina Campus.

 <b>OPERATIONAL PROCEDURES MANUAL</b> <b>WASTE MANAGEMENT AND SEGREGATION</b>											
The University of Mindanao   Doc. ID: OPM 26.06   Revision No.: 3   Effectivity: Jan. 15, 2026   Page 1 of 9											
<b>I. PURPOSE</b>	This policy is designed to substantially decrease plastic waste on campus, encourage eco-friendly practices and inform the university community about the adverse effects of plastic pollution on the environment. This policy aligns with the United Nations Sustainable Development Goals (SDGs), particularly SDG 12 (Responsible Consumption and Production) and SDG 14 (Life Below Water), aiming to reduce plastic waste and its environmental impact.										
<b>II. SCOPE</b>	This policy applies to any solid waste and hazardous/health care waste generated from university operations (including but not limited to laboratories, motorpool, construction, physical plant maintenance operations, clinics, and concessionaires), as well as its usage and handling, and storage of chemical substances or hazardous materials.										
<b>III. POLICIES/ GUIDELINES</b>	<b>1. Definition of Terms</b>										
	<table border="1"> <tr> <td>Solid Waste Management</td> <td>Refers to the collection, transportation, treatment, disposal and storage, and recycling of solid waste.</td> </tr> <tr> <td>Solid waste</td> <td>Any solid and semi-solid discarded materials including but not limited to, garbage, rubbish, ashes, industrial waste, swill, demolition and construction waste, abandoned vehicles and parts thereof, discarded commodities, biosolids (sewage sludge and septage), wood waste and special waste.</td> </tr> <tr> <td>Special waste</td> <td>Waste that have particular characteristics such that they require special handling and/or disposal care, such as but not limited to: paint cans, pesticide/herbicide containers, batteries for electronics or for automobiles, electronic waste, etc.</td> </tr> <tr> <td>Recyclables</td> <td>Items that can be reprocessed into feedstock for new products. Common examples are paper, glass, aluminum, corrugated cardboard and plastic containers.</td> </tr> <tr> <td>Reuse</td> <td>The use of a product more than once in its original form, for the same or a new purpose.</td> </tr> </table>	Solid Waste Management	Refers to the collection, transportation, treatment, disposal and storage, and recycling of solid waste.	Solid waste	Any solid and semi-solid discarded materials including but not limited to, garbage, rubbish, ashes, industrial waste, swill, demolition and construction waste, abandoned vehicles and parts thereof, discarded commodities, biosolids (sewage sludge and septage), wood waste and special waste.	Special waste	Waste that have particular characteristics such that they require special handling and/or disposal care, such as but not limited to: paint cans, pesticide/herbicide containers, batteries for electronics or for automobiles, electronic waste, etc.	Recyclables	Items that can be reprocessed into feedstock for new products. Common examples are paper, glass, aluminum, corrugated cardboard and plastic containers.	Reuse	The use of a product more than once in its original form, for the same or a new purpose.
	Solid Waste Management	Refers to the collection, transportation, treatment, disposal and storage, and recycling of solid waste.									
	Solid waste	Any solid and semi-solid discarded materials including but not limited to, garbage, rubbish, ashes, industrial waste, swill, demolition and construction waste, abandoned vehicles and parts thereof, discarded commodities, biosolids (sewage sludge and septage), wood waste and special waste.									
	Special waste	Waste that have particular characteristics such that they require special handling and/or disposal care, such as but not limited to: paint cans, pesticide/herbicide containers, batteries for electronics or for automobiles, electronic waste, etc.									
	Recyclables	Items that can be reprocessed into feedstock for new products. Common examples are paper, glass, aluminum, corrugated cardboard and plastic containers.									
Reuse	The use of a product more than once in its original form, for the same or a new purpose.										

**OPM 27.07**

Solid Waste Management

15 LIFE ON LAND



## In Celebration of Arbor Day, the Faculty and Agroforestry Interns from the Environmental Studies Department (ESD) planted trees in UM Agroforestry Demo Farm, Bayabas, Toril

**50** Seedlings were planted by faculty members, Agroforestry interns from the Environmental Studies Department (ESD), and Dr. Chosel P. Lawagon in celebration of Arbor Day through a tree-planting and forest conservation activity at the UM Agroforestry Demo Farm in Bayabas, Toril. The initiative included forest clean-up, tree preservation, and tree planting efforts aimed at promoting biodiversity, enhancing air quality, mitigating climate change, conserving water resources, and supporting wildlife habitats. Through the campaign “Plant a Tree and Grow with Me,” participants were encouraged to become environmental stewards and help build a greener, more sustainable future.





# Flora Species at the University of Mindanao

**BOTONG**  
*Barringtonia asiatica* (L.) Kurz

Native to  
Philippines

Conservation Status  
IUCN 2022-1 - Least Concern (LC)  
DAO 2020-20 - Other Wildlife Species (OWS)

**HAGAKHAK**  
*Dipterocarpus validus* Blume

Native to  
Philippines

Conservation Status  
IUCN 2022-1 - Least Concern (LC)  
DAO 2020-20 - Other Wildlife Species (OWS)

**SMOOTH NARRA**  
*Pterocarpus indicus* Willd. forma *indicus*

Native to  
Philippines

Conservation Status  
IUCN 2022-1 - Endangered (EN)  
DAO 2020-20 - Vulnerable (VU)

**BINUANG**  
*Octomeles sumatrana* Miquel

Native to  
Philippines

Conservation Status  
IUCN 2022-1 - Least Concern (LC)  
DAO 2020-20 - Other Wildlife Species (OWS)

**ALASIIS**  
*Aphananthe philippinensis* Planch

Native to  
Philippines

Conservation Status  
IUCN 2022-1 - Least Concern (LC)  
DAO 2020-20 - Other Wildlife Species (OWS)

**188** trees species

**78** shrub and ornamentals species

The campus is home to a rich diversity of plant life, with 188 tree species and 78 shrub and ornamental species documented across its green spaces. Among these are conservation-priority native trees, including the Endangered Narra (*Pterocarpus indicus*), the Critically Endangered Yakal (*Shorea astylosa*), and Hagakhak (*Dipterocarpus validus*), a native dipterocarp species recognized by the International Union for Conservation of Nature (IUCN) Red List of Threatened Species. The presence of these species reflects the University's commitment to conserving Philippine biodiversity through sustainable landscape management, habitat protection, and the preservation of native flora in support of SDG 15: Life on Land.



# Fauna Species at the University of Mindanao

**31** Avifauna

**12** Herpetofauna

**4** Volant Mammals

**1** Non-Volant Mammals

**WHITE-COLLARED KINGFISHER**  
*Todiramphus chloris* (Boddaert, 1783)

**'TINGKAROL'**  
 "A bird so strikingly beautiful, thriving even in disturbed places, a living reminder that amidst chaos, beauty not only survives, but shines."

Native to  

 Philippines

Conservation Status  
 IUCN v2025-1 - Least Concern (LC) - Population Trend: Increasing  
 DAO 2019-09 - Other Wildlife Species (OWS)

**GREATER MUSKY FRUIT BAT**  
*Ptenochirus jagori* (Peters, 1861)

**'KABILAW'**  
 "Silent in the night essential for life - nurturing the forest one flight at a time"

Endemic to the  

 Philippines

Conservation Status  
 IUCN v2025-1 - Least Concern (LC) - Population Trend: Stable  
 DAO 2019-09 - Other Wildlife Species (OWS)

**MALAYAN BOX TURTLE**  
*Cuora amboinensis* (Daudin, 1801)

**'PAGONG'**  
 "Protected by nature's armor - a quiet survivor in the rhythm of the forest"

Native to  

 Philippines

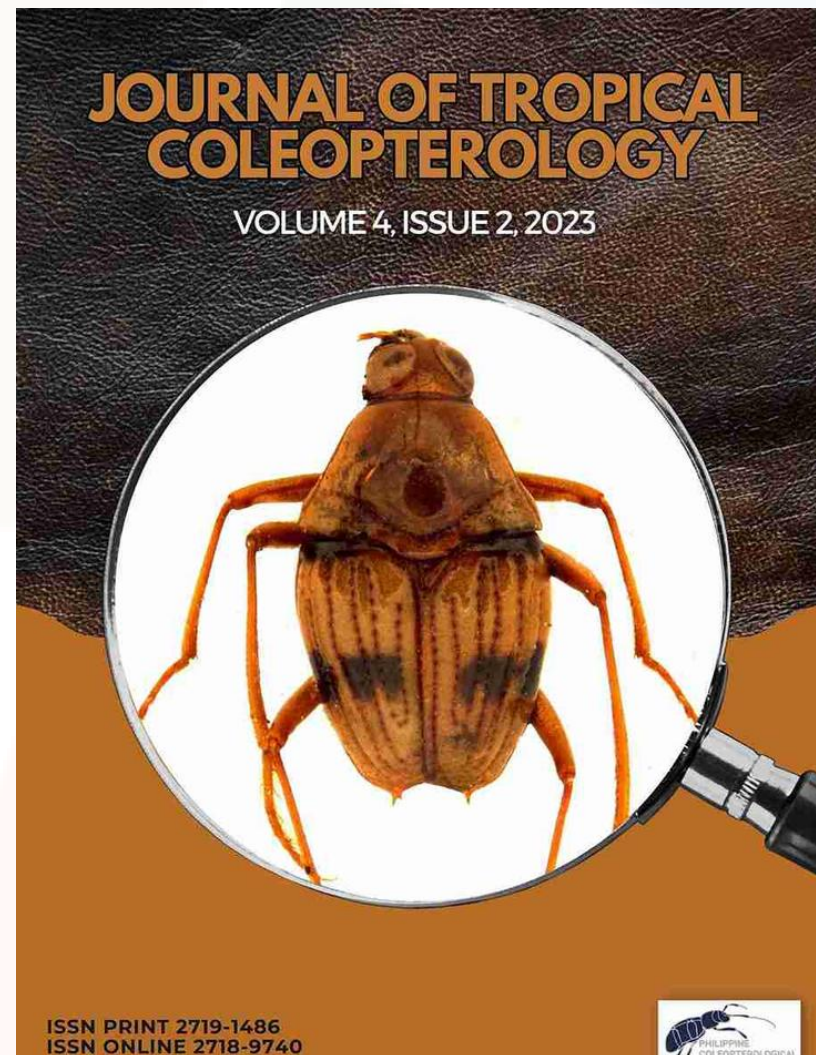
Conservation Status  
 IUCN v2025-1 - Endangered (EN) - Population Trend: Decreasing  
 DAO 2019-09 - Other Wildlife Species (OWS)

The campus supports a diverse assemblage of wildlife, with 31 avifauna species, 12 herpetofauna species, 4 volant mammal species, and 1 non-volant mammal species recorded within its green spaces. This rich fauna complements the University's diverse plant communities, creating habitats that sustain native wildlife and enhance ecological resilience. The documented species provide valuable opportunities for education, research, and conservation while reinforcing the University's commitment to protecting biodiversity and promoting sustainable campus management














# Coleoptera Research Center at University of Mindanao

The Coleoptera Research Center (CRC) is the Philippines' premier center for beetle research and conservation, advancing biodiversity studies through species discovery, scientific collections, research, and capacity building. Established in 2018, it is a collaborative initiative between the University of Mindanao and Daugavpils University under the ERASMUS+ Mobility Programme.



## JTC Editorial Board

 <p><b>DR. MARIA LINDA B. ARQUIZA</b> Vice President for Research and Publication University of Mindanao Philippines</p>	 <p><b>DR. ARVIDS BARSEVSKIS</b> Editor-in-Chief Daugavpils University Latvia</p>	 <p><b>DR. ALEXANDER ANITSCHENKO</b> Associate Editor Daugavpils University Latvia</p>
 <p><b>DR. ALEXEY SHAVRIN</b> Associate Editor Daugavpils University Latvia</p>	 <p><b>MR. JÜRGEN WIESNER</b> Associate Editor Dresdener Ring Germany</p>	 <p><b>DR. MATTHEW VAN DAME</b> Associate Editor California Academy of Sciences United States of America</p>
 <p><b>DR. REAGAN JOSEPH VILLANUEVA</b> Associate Editor University of Mindanao Philippines</p>	 <p><b>DR. ENRICO RUZZIER</b> Associate Editor University of Padova Italy</p>	 <p><b>DR. LUCCA BARTOLOZZI</b> Associate Editor University of Florence Italy</p>
 <p><b>DR. MAURIZIO BOLLINO</b> Associate Editor Italy</p>	 <p><b>DR. SALVATORE ANZALDO</b> Associate Editor Arizona State University United States of America</p>	

8

Internationally  
Refereed Journals  
issued from 2025

The Center also publishes the Journal of Tropical Coleopterology (JTC), an international peer-reviewed open-access journal dedicated to tropical beetle research. As of 2025, eight journal issues have been published, providing a platform for researchers worldwide to share scientific knowledge on biodiversity, taxonomy, ecology, and conservation, thereby supporting evidence-based management and the protection of terrestrial ecosystems.



# University of Mindanao-Daugavpils University ERASMUS + Mobility Scientific Research Expedition



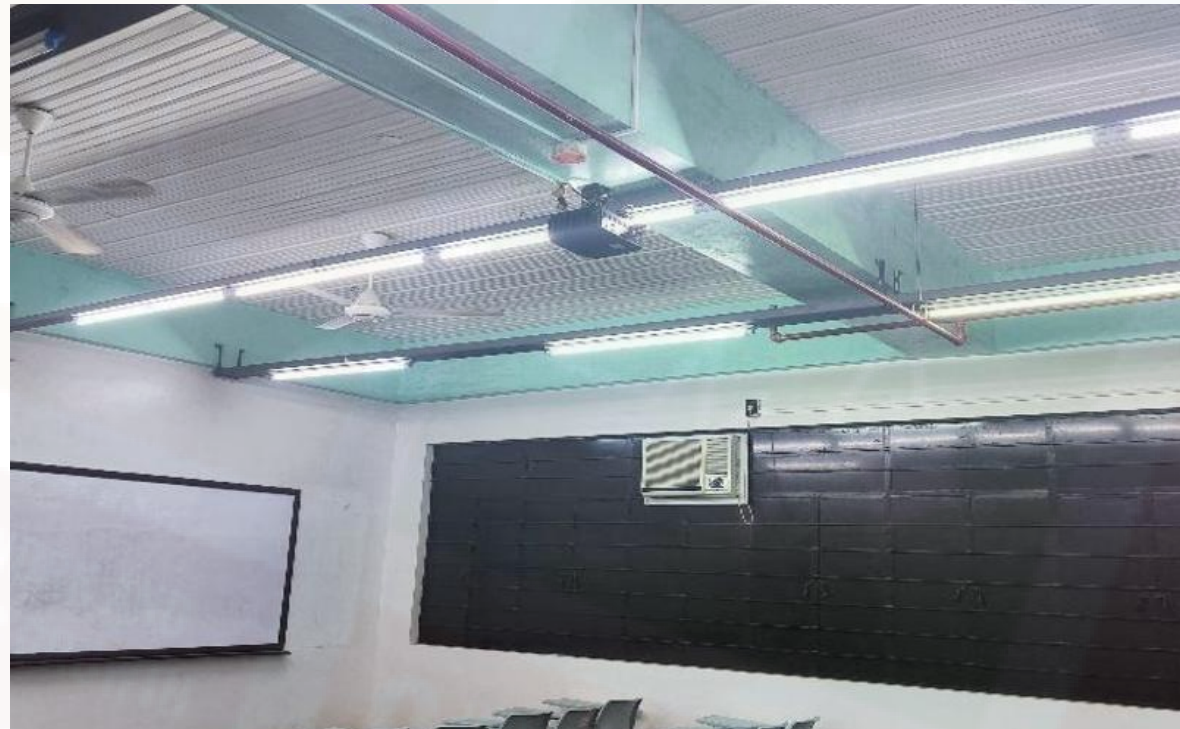
## 6

Scientific Expeditions  
from 2018-2025

The University of Mindanao–Daugavpils University ERASMUS+ Mobility Scientific Research Expedition strengthens international collaboration in biodiversity research and conservation through joint field expeditions, species documentation, and scientific knowledge exchange. Since 2018, the partnership has conducted six scientific expeditions across key biodiversity areas in Mindanao, providing opportunities for collaborative research, student and faculty training, and the discovery and documentation of native flora and fauna.



## Energy Efficient Appliances Usage



The university also installed **253** air conditioning units and **892** ceiling fans across all campus buildings. These figures reflect the institution's energy use and highlight the growing importance of efficient energy management to reduce operational costs while minimizing environmental impact.



# 2,231

The university uses LED luminaries across all buildings to significantly reduce energy consumption while providing high-efficiency, long-lasting illumination throughout the campus.



# 67

Solar-powered lights have been installed across the campus as part of the University's ongoing efforts to strengthen energy management and improve energy efficiency. This initiative promotes the use of renewable energy, reduces reliance on conventional electricity sources, and supports sustainable campus operations.



# 16 PEACE, JUSTICE AND STRONG INSTITUTIONS

The University of Mindanao actively involves its stakeholders, including faculty, staff, students, alumni, and industry partners in the planning and decision-making processes to ensure the continuous improvement of the university and the well-being of its academic community. This collaborative approach allows UM to respond more effectively to the evolving needs of its students and staff, while fostering a sense of shared responsibility and commitment to institutional growth and development.

- UM's Student Council & Student-Led Organizations
- Conduct of Annual Stockholders' Meeting Policy





# Organizing, Empowering, Thriving: UM's CCSG and CSO at Work

At the University of Mindanao, student life is more than just lectures and exams—it's a vibrant journey filled with opportunities to learn, lead, and connect.

## 2

**COUNCIL** is at the center of this dynamic experience, serving as the driving force for academic growth, student engagement, and leadership development at the University of Mindanao. By organizing meaningful activities, fostering collaboration, and empowering students to take an active role in campus life, the Council ensures that every UMian has the opportunity to thrive both inside and outside the classroom.

The CCSG serves as the voice of the student body, ensuring that the needs and aspirations of UMians are represented and addressed. With initiatives ranging from academic support and community outreach to cultural celebrations and leadership forums. Meanwhile, the CSO nurtures the creativity and passion of students by supporting a diverse array of organizations across the university.



Together, the CCSG and CSO form the backbone of student leadership and engagement at UM. Their combined efforts not only enrich the campus experience but also cultivate responsible, collaborative, and future-ready leaders who embody the university's mission of excellence and service. The exchange of best practices in teaching, research, and community engagement. These initiatives not only expand the horizons of UM's academic community but also elevate the institution's global competitiveness.



# UM's Recognized Student Organizations Keep Campus Spirit Alive



True to the university's "open admission" policy, inclusivity has never been limited to its enrollment system alone. This culture of openness is deeply embedded in every activity and initiative the university supports, allowing students from all walks of life to find their place, their voice, and their community within the university.

# 83

accredited student organizations for the SY: 2025 - 2026.

These groups, ranging from academic and professional societies to cultural, religious, and indigenous clubs, reflect the diverse passions and pursuits of the UMian community.



With this, student organizations have become more than just co-curricular outlets—they serve as training grounds for leadership, collaboration, and service. From spearheading academic forums and cultural showcases to leading outreach drives and sustainability campaigns, these organizations embody the university's mission of holistic education.



# 17 PARTNERSHIP FOR THE GOALS

Addressing global sustainability challenges requires institutions to drive the United Nations' SDGs. The University of Mindanao advances these goals by collaborating with NGOs, government agencies, and organizations such as PNVSCA. Through initiatives like the International Volunteerism Symposium and gender-focused forums, UM fosters dialogue on critical topics. Student volunteer programs, research partnerships, and sustainability-focused curricula ensure active participation in community development. Transparency is prioritized through progress reports shared via ConnectUM and other platforms, promoting accountability. While significant strides have been made, UM aims to expand international collaborations to strengthen its impact on global sustainability initiatives through education, research, and partnerships.

- Number of Inbound and Outbound Students
- International Linkages & Number of International Partners
- Local, National, International Student Engagements
- UM Forging Partnerships



17 PARTNERSHIPS  
FOR THE GOALS



# UM's Trailblazing Role in International Academic Exchange



In 2014, UM made history as the first Philippine institution to join the ASEAN International Mobility for Students (AIMS) Program, opening doors for its students to experience world-class education and cross-cultural learning opportunities across the region.

Since then, UM has actively deepened its engagement in international initiatives, particularly through the University Mobility in Asia and the Pacific (UMAP).

**180 +** students sent to **42 international partner** schools in Asia, Europe, Australia, and North America in the past 10 years.

By participating in collaborative projects and knowledge-sharing platforms, UM has strengthened its network with partner institutions abroad, fostering mutual understanding and creating pathways for academic innovation.



The university's commitment goes beyond student exchange programs. Faculty and staff exchanges have also been established, enriching professional development while promoting the exchange of best practices in teaching, research, and community engagement. These initiatives not only expand the horizons of UM's academic community but also elevate the institution's global competitiveness.



# Forging Global Partnerships Through International Linkages

Through sustained global engagement, UM promotes knowledge-sharing, cultural understanding, and innovative solutions to shared challenges. Such efforts reflect the University's commitment to inclusive education and directly support Sustainable Development Goal 17: Partnerships for the Goals.

 The Energy University			
			
			
			

The University of Mindanao continues to strengthen its international linkages by actively forging partnerships with universities, industries, and organizations across the globe. These collaborations open opportunities for academic exchange, joint research, and capacity-building initiatives that enrich the learning experiences of students and faculty alike.



# UM's Trailblazing Role in International Academic Exchange

42

**International partnerships** remain strong as UM continues to expand its global presence through collaborations with universities, industries, and organizations abroad. These partnerships provide opportunities for student and faculty exchanges, joint research initiatives, and knowledge-sharing that enhance academic excellence and innovation. By fostering meaningful global connections, UM not only strengthens its institutional capacity but also contributes to cross-cultural understanding and international cooperation.





# UM Celebrates International Mobility Day: Showcasing Global Voices and Experiences



The event became a vibrant platform for UM's exchange students, who shared their inspiring stories, challenges, and unforgettable moments from their international journeys. Their narratives highlighted not only personal growth but also the university's unwavering commitment to global engagement and intercultural learning.

# 10th

International Mobility Day stands as a testament to UM's role in shaping globally competent graduates and fostering inclusive education.



The program also showcased UM's dedication to home internationalization, with students taking the lead in presenting meaningful intercultural exchanges. Through cultural performances, engaging presentations, and interactive segments, they celebrated the richness of global diversity and the importance of building bridges across cultures—right here on campus.



# United Nations Day Celebration Highlights Peace, Unity, and Global Cooperation



Adding a global touch to the afternoon program were international students from Myanmar, Thailand, Indonesia, and Nigeria. They captivated the audience as they enthusiastically shared their cultures—from food, customs, and traditions to the cultural differences they have experienced while living in the Philippines. Their presentations highlighted the value of intercultural understanding and dialogue in building inclusive learning spaces.

The University of Mindanao holds an annual celebration of United Nations Day to promote diversity and strengthen cultural awareness. In this year's celebration, the university invited guests from neighboring institutions, including the University of Immaculate Conception, Ateneo de Davao University, Holy Cross of Davao College, and the University of Southeastern Philippines.



By embracing cultural diversity and promoting inclusivity, the University of Mindanao continues to foster an environment where education becomes more than just academic pursuit—it becomes a bridge for unity, respect, and shared growth. Through its programs and celebrations that highlight cultural exchange and global understanding, UM strengthens its role as an institution that not only nurtures intellectual development but also builds a community rooted in compassion, acceptance, and collaboration.



# UM Faculty Showcase Research Excellence at PIBACC 2025 in Surabaya, Indonesia



The University of Mindanao proudly sent three faculty members from the College of Accounting Education and two from the College of Business Administration to represent the institution at the 2nd Petra International Business and Accounting Conference (PIBACC), held on June 30 – July 1, 2025, at Petra Christian University (PCU), Surabaya, Indonesia.

**3** UM faculty members shine on the International Stage, Carrying the Banner High at PIBACC.

Recognized as a prestigious platform for international dialogue, PIBACC brings together scholars, industry leaders, policymakers, and practitioners to address pressing global challenges through interdisciplinary exchange and collaboration.



UM's delegation made a remarkable impression at the conference. Mr. Jade Solaña, Program Head of BS Accountancy, was honored as one of the **Best Participants**. In addition, the team's study titled "Certified Public Accountants' Reluctance to Pursue Academic Career in Davao City: An Exploratory Factor Analysis" (Centina, J., Jimenez, C., Limikid, JM., & Solaña, J.) was recognized as one of the **Best Abstracts**.



# UM Civil Engineering Students Excel at the 13th International Senior Project Conference in Thailand

2 students from the University of Mindanao's College of Engineering Education – Civil Engineering Program proudly represented the

Philippines at the 13th International Senior Project Conference (ISPC) 2025, held from June 4 to 6 at King Mongkut's University of Technology Thonburi (KMUTT) in Bangkok, Thailand.



This year, ISPC showcased 50 innovative projects from 11 universities across six countries—the Philippines, Indonesia, Malaysia, Taiwan, Japan, and Singapore—alongside entries from KMUTT's Faculty of Engineering, underscoring Asia's creativity and academic excellence. Representing UM were Civil Engineering students Dinah Ross Degorio and Oliver Bariquit, Jr., with Degorio earning the Best Presentation Award for her outstanding research.

Joining the delegation was Engr. Abo Yasser Manalindo, who represented UM in networking with fellow participants and institutional representatives, further strengthened the university's global academic presence.

The University of Mindanao proudly celebrates the remarkable achievements of its student researchers and mentors, reaffirming its commitment to academic excellence, research innovation, and global engagement in the field of engineering.





# UM Showcases Research Excellence at 7th IOHSK International Conference

**Maui Andre A. Pevida**, a student of the College of Teacher Education – Bachelor of Physical Education (BPE) Program, was recognized with the Outstanding Research Critique Presentation Award during the Awarding Ceremony of the 7th International Organization for Health, Sports and Kinesiology (IOHSK) International Conference. This achievement showcases the University of Mindanao’s commitment to academic excellence, research innovation, and the global recognition of its students’ scholarly contributions.”

The recognition highlights the strong research culture fostered at UM, where students are encouraged to pursue inquiry-based learning, develop critical thinking skills, and engage in global academic discourses. Participation in international conferences allows students not only to showcase their research but also to learn from experts, exchange ideas, and build networks that broaden their academic and professional horizons.

These accomplishments reflect the University’s dedication to nurturing future educators and professionals who are equipped with the knowledge, skills, and global perspective needed to address contemporary challenges in health, sports, and education.





# UM Welcomes Indonesian Guests from Partner Universities, Holds Courtesy Call with Consul and UM Officials



The University of Mindanao continues to strengthen its international partnerships through dynamic academic exchanges and collaborative programs. Recently, UM welcomed faculty and student guests from partner universities in Indonesia, reflecting the institution's commitment to fostering cross-cultural understanding and global cooperation.

The visit included courtesy calls at the Consulate General of the Republic of Indonesia and meetings with UM's senior officials at the Matina campus, underscoring the value of sustained academic diploma. Two faculty members from Universitas Bhayangkara Jakarta Raya (UBJ) arrived in Davao to conduct research and lectures at UM, while five students from the State Islamic University Prof. K.H. Saifuddin Zuhri, Purwokerto, completed a two-week community immersion program hosted by UM Digos College.



These initiatives provided opportunities for knowledge exchange, cultural immersion, and collaborative research, enriching the academic experiences of both UM and its partner institutions. Such engagements not only enhance the University's academic landscape but also build pathways for sustainable and transformative partnerships across borders.



## Walking Together: UM-CTE at Angels Walk for Autism 2024

University of Mindanao – College of Teacher Education have once again exemplified the spirit of community involvement by participating in the Angels Walk for Autism 2024 last April 21, held at SM City Annex Activity Ground.

College of Teacher Education, represented by students from various programs like Bachelor of Special Needs Education (BSNED), Bachelor of Elementary Education (BEED), and Bachelor of Early Childhood Education (BECED), stepped up in full force to make a difference in this annual event, dedicated to raising awareness and support for individuals on the spectrum.

Angels Walk for Autism 2024, spearheaded by Autism Society Philippines (ASP) Davao brought together individuals, families, and organizations to celebrate and promote understanding with social acceptance of autism. Different performances prepared by delegates graced the center stage equally presenting that their disability won't limit their ability from singing to dancing and playing musical instruments.

University of Mindanao – College of Teacher Education eagerly embraced this opportunity to showcase their commitment to inclusivity and diversity, wherein each student left the venue with a sense of fulfillment, knowing that their contributions have made a meaningful impact in raising awareness and support for individuals with autism.



UM-CTE's participation in this event serves as a testament to the power of collective action and the profound difference that can be made when individuals come together to support a common cause.



## Empowering Adlai Farmers through Innovation: How UM RIC and CEE bring Technology to Kinabuhi Farms

The Research and Innovation Center (RIC) hosted a transformative event at Kinabuhi Organic Farms & Agriventures, Inc. (KOFAI), introducing groundbreaking Adlai technologies to local farmers. This program, titled "**Empowering Communities Through Innovation**," focused on deploying, demonstrating, and training participants on advanced milling and threshing solutions to enhance efficiency and reduce post-harvest losses.



The event was attended by the Research and Innovation Team, led by **Dr. Maria Linda B. Arquiza**, Vice President for Research and Publication, and the College of Engineering Education (CEE), headed by their Dean, **Dr. Charlito L. Cañesares**. Their presence highlighted the University's commitment, under the leadership of **Dr. Guillermo P. Torres, Jr.**, to empower communities through collaborative innovation.

Additionally, the event was honored by the participation of Atty. Lucky Siegfred M. Balleque., the Director of the DTI Davao City Field Office from the Department of Trade and Industry Region XI. Representing KOFAI were **Mr. Joseph Rodriguez**, CEO; **Ms. Cecilia L. Rodriguez**, COO, and their team.





## Empowering Adlai Farmers through Innovation: How UM RIC and CEE bring Technology to Kinabuhi Farms

The initiative, aligned with Sustainable Development Goals (**SDG 2: Zero Hunger, SDG 9: Industry, Innovation, and Infrastructure, and SDG 17: Partnerships for the Goals**), aimed to bolster sustainable agricultural practices while improving food security and reducing waste. Farmers and stakeholders participated in hands-on training sessions, gaining practical skills to optimize the use of these innovative technologies.

Participants praised the program's impact, citing its potential to revolutionize farming practices and strengthen community resilience. RIC intends to expand this initiative, continuing its mission to empower rural communities through innovation and sustainable solutions, especially towards Adlai production.





# Meta-Restore: Sustainable Rehabilitation of Mining-Affected Landscapes Using Native Tree Species as Potential Metallophytes in Tampakan, South Cotabato

The Metallophytes Research is a long-term initiative led by the **Environmental Science Department (ESD)** in collaboration with **Sagittarius Mines, Inc. (SMI)** and **DENR XII Mines and Geoscience Bureau (MGB)** to identify, evaluate, and apply plant-based solutions in heavy metal-contaminated environments, particularly in the proposed Tampakan Copper-Gold Project area in South Cotabato. The project aims to identify native metallophyte species, assess their phytoremediation potential, and explore their integration into sustainable rehabilitation practices for mining-impacted landscapes.

This research spans several phases since 2015:

- **Phase 1 (2017):** Identification of Potential Metallophytes Along Proposed Copper-Gold Mining in Pulabato, Tampakan, South Cotabato.
- **Phase 2 (2019):** Potential Tree Metallophytes Along Proposed Copper Gold Mining Project
- **Phase 3 (2022):** Concentration and spatial distribution of heavy metals in topsoil surrounding the proposed Tampakan copper-gold project
- **Phase 4 (Ongoing):** 5-Year Trial Planting of Forest Tree Species Inoculated with Mycorrhiza in SMI Copper-Gold Environment Tampakan, South Cotabato

The initiative moves beyond traditional tree planting. It tests combinations of selected forest tree species and mycorrhizal inoculants to determine which pairings perform best in real-world mining conditions.



**4** Research Projects

**10** Years Partnership



# Technical Working Group (TWG) on Public Awareness and Capacity Building of the Davao City Airshed Governing Board (DCAGB)

On October 14, 2025, the Technical Working Group (TWG) on Public Awareness and Capacity Building of the Davao City Airshed Governing Board (DCAGB) conducted a strategic planning workshop to enhance initiatives in air quality management and promote positive environmental behaviors.

Guided by the Social and Behavior Change Communication (SBCC) framework, the workshop focused on transforming the 2025–2029 DCAGB Action Plan into practical communication strategies designed to increase public understanding of air quality issues and encourage active participation in air pollution prevention and control efforts.

The activity was led by the **Philippine Information Agency (PIA) Region XI** and attended by representatives from **Holcim Philippines, Inc., Therma South, Inc., Interfacing Development Interventions for Sustainability (IDIS), the University of Mindanao,** and other TWG members, while the **Environmental Management Bureau (EMB) XI** served as the secretariat.

Moving forward, the TWG will collaborate with the Davao City Information Office, PIA XI, and other stakeholders to expand the reach of air quality information through various communication channels, including television, radio, social media, community engagements, and other public information platforms.



## **Sustainability Champions**

**Gloria E. Detoya, DBA**

Executive Vice-President/Chief Operating Officer

**Maria Linda B. Arquiza, Ed.D.**

Vice-President, Research and Innovation Center

**Reynaldo A. Castro, Ph.D.**

Vice-President, External Relations and International Affairs Office

**Myrna S. Viado, DBA**

Vice-President, Human Resource Management Development

**Michelle Y. Acledan, Ed.D.**

Asst. Vice-President, Human Resource Development

**Sitti Rogaiya L. Apadan**

Asst. Vice-President, Community Extension Center

**Arch. Ruben F. Erickson**

Vice-President, Physical Plant Management and General Services

**Marianne P. Afrondoza**

Asst. Vice-President, Office of Student Affairs

**Rochelle M. Asuncion**

Manager, Quality Management System

## **Sustainability Committee:**

Environmental Studies Department  
Faculty Members

- **Charlyn T. Gorgonio, Ph.D.**
- **Marvin D. Batican, MEP**
- **Richelyn C. Dumdum, MEP**
- **Abishag Chrystie B. Macanta**
- **Johanne Astrid C. Jadloc**
- **Nadzer C. Abbas**