

# Universitas Sebelas Maret



## SDG's REPORT 2024

# INTRODUCTION



Assalamu'alaikum Warahmatullahi  
Wabarakatuh,

All praise be to Allah, the Almighty, for His endless blessings and grace that have enabled the successful completion of this 2024 Sustainable Development Goals (SDGs) Report. This report serves as tangible evidence of our university's strong commitment to supporting the achievement of global sustainable development goals, as endorsed by various international and national institutions, including those in Indonesia.

As a higher education institution, we play a vital role in shaping future generations who are aware of and responsive to global issues, particularly in the realm of sustainable development. Through the implementation of inclusive education programs, environmentally friendly energy management, and continuous support for sustainable research and innovation, our university strives to make a real contribution to the achievement of SDG targets. These policies have proven effective in raising awareness and encouraging the active participation of all members of the academic community in promoting quality education, preserving ecosystems, and strengthening the values of inclusivity.

This report presents a summary of the achievements, challenges, and tangible impacts of various policies that have been implemented both within and beyond the university. We recognize that success in achieving the SDGs requires strong collaboration and synergy among all stakeholders. Therefore, through this report, we invite all related parties to work together in building a more inclusive, equitable, and sustainable development ecosystem.



**Prof. Irwan Trinugroho, S.E., M.Sc., Ph.D**

Vice Rector for Planning, Collaboration, Internationalization, and Information

In closing, we would like to express our sincere gratitude to the entire report preparation team and to all parties who have contributed to the implementation of policies and various SDG-related activities at our university. We hope that this report will serve as both an inspiration and a reference for all of us in supporting the achievement of the Sustainable Development Goals (SDGs) in Indonesia.

Wassalamu'alaikum Warahmatullahi  
Wabarakatuh.

# KEY FACTS



- Universitas Sebelas Maret covers an area of approximately **463,93 hectares** and is distributed over **20 distinct sites** including teaching and learning facilities as well as field learning locations.
- The ratio of open space area to the total area of the campus is **92,3%** consisting of areas covered with vegetation, water, and materials which can absorb water.
- The area of the campus covered by forest vegetation spans approximately **341,9 hectares**.
- A total of **532** Intellectual Property Right.



**S  
D  
G  
'  
S**




**R  
E  
P  
O  
R  
T**

**“At least 10% of the world’s population live in extreme poverty, unable to fulfil the most basic needs - food, health, education, access to clean water and sanitation. Universities need to be able to demonstrate how they are helping to address this problem through their work.”**

**-THE Impact Rankings**


# 1 NO POVERTY



Number of	
Total students	27.604
Low income students receiving financial aid	20.353 

**6.9**  
Impact Factor

RESEARCH IN NUMBERS (2024)

 **25**  
publications

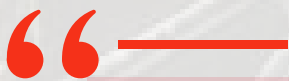


Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 1

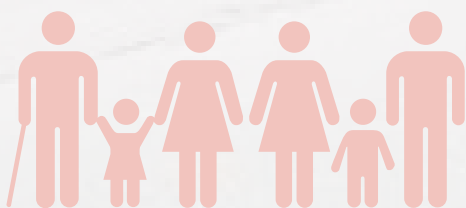


## THE URGENCY OF USING AL-MILK AN-NAQIS IN GEOGRAPHICAL INDICATIONS: AN IDEAL PRESERVATION FOR INTELLECTUAL PROPERTY IN INDONESIA



### RESEARCH ARTICLE

The study highlights that **geographical indications legal certifications linking products to their regions of origin are crucial for protecting local intellectual property and improving competitiveness in global markets.** This model allows partial or benefit-based ownership without transfer of full rights, which can preserve GI products without time limits, promote flexibility, and involve communities in management and economic gain.



1

NO  
POVERTY



# END POVERTY IN ALL ITS FORM EVERYWHERE

## 1 **BAZNAS Scholarship for University Students**

The National Amil Zakat Agency (BAZNAS) of Central Java has awarded **scholarships** totaling **IDR 64,800,000** to 18 students of Universitas Sebelas Maret. This financial assistance aims to alleviate the economic burden of underprivileged students while enhancing their access to higher education. The program contributes to poverty reduction by improving the quality of human resources and reinforcing **the role of zakat in generating broad-based social benefits.**



## 2 **Foster Sibling and Orphan Program by Universitas Sebelas Maret Zakat Collection Unit**

The Zakat Collection Unit of Universitas Sebelas Maret (UPZ UNS) held the **Grand Opening Ceremony of the Foster Sibling and Orphan Program for the 2024/2025** period. The event, which took place at the Seminar Room of Nurul Huda Mosque, Universitas Sebelas Maret, also marked the first scholarship distribution for foster beneficiaries in this period. On this occasion, educational scholarships were awarded to **60 orphaned and underprivileged children (30 elementary school students, 15 junior high school students, and 15 senior high school students)** for July 2024. This educational assistance serves as an essential instrument to break the cycle of intergenerational poverty by ensuring equitable access to quality education.



1 NO  
POVERTY

# END POVERTY IN ALL ITS FORM EVERYWHERE

### 3 | Alleviating Economic Burdens Through Community Services

The Zakat Collection Unit of Universitas Sebelas Maret (UPZ UNS) and the Association of Biology Students (HIMABIKO UNS) organized **a social service event at Pesantren Yatim Balita Adhsa** in Cemani, Grogol, Sukoharjo on October 24, 2024. The event was attended by caregivers, staff, and 35 children from the orphanage who received food aid packages and donations. This simple yet meaningful initiative reflects a tangible act of compassion aimed at **alleviating the burden of highly vulnerable economic and social groups**.

UPZ UNS, in collaboration with the Student Executive Board of the Faculty of Teacher Training and Education (BEM FKIP UNS), held another **social service program in Tepisari, Polokarto, Sukoharjo** from November 8 to 10, 2024. The program benefited 25 local residents who received food aid packages and was supported by **85 students, comprising 56 committee members and 29 volunteers**. The assistance included the distribution of food packages, basic health check-ups, and educational outreach to the Women Farmers Group (KWT). This initiative not only **strengthened social solidarity but also supported community welfare** through access to basic needs and health services.

Furthermore, UPZ UNS, in partnership with the Business Management Program of Universitas Sebelas Maret, conducted a **community empowerment activity titled Bina Desa in Dusun Baran, Bulu Village, Bulu Subdistrict, Sukoharjo** on November 16, 2024. The primary focus of this initiative was local economic empowerment, particularly for micro, small, and medium enterprises (MSMEs). A total of **40 MSME actors** participated in a simple financial reporting training session. Twenty Business Management students took part as committee members. Their involvement was expected to provide valuable learning experiences while fostering a deeper sense of social responsibility and community engagement.





**S  
D  
G  
'  
S**



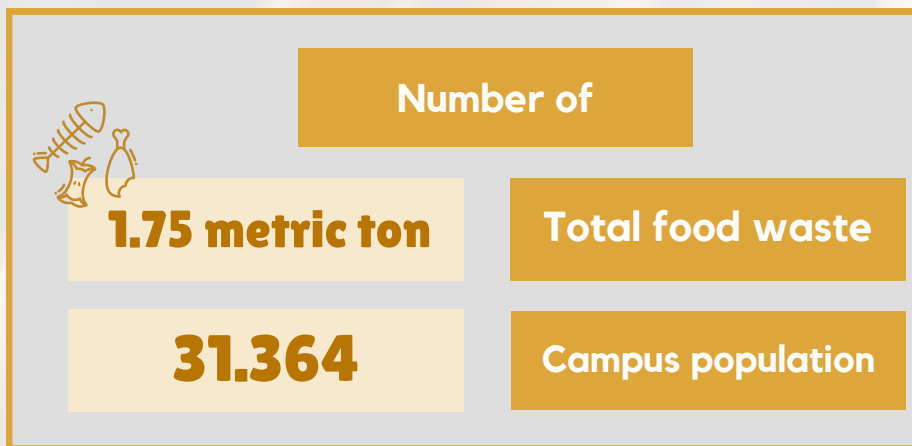
**R  
E  
P  
O  
R  
T**

# 2 ZERO HUNGER



“The ability to feed the world is a key element of sustainable development. If done right, agriculture, forestry and fisheries can provide nutritious food for all. At the same time it can ensure rural development with people at the centre of the process, supporting the incomes of those who rely on agriculture. Universities need to be able to demonstrate how they are contributing to end hunger, achieve food security and improved nutrition and promote sustainable agriculture.”

-THE Impact Rankings



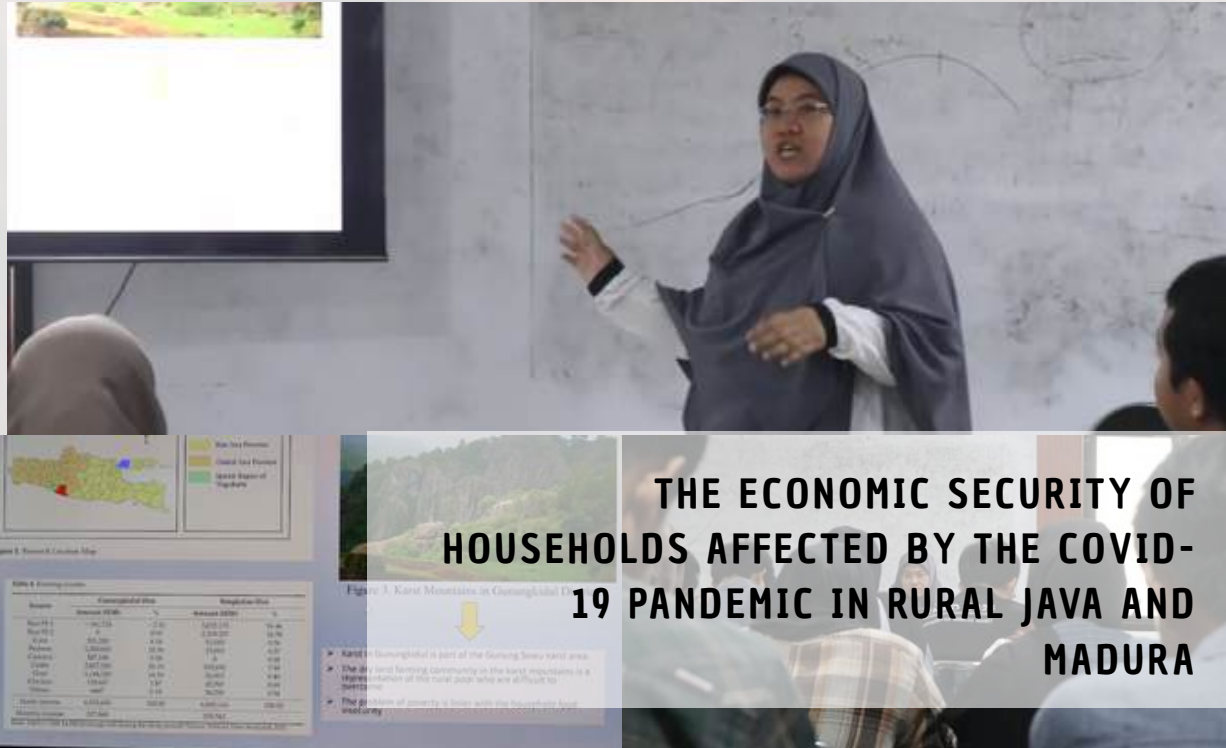
“ **15.4**  
Impact Factor

RESEARCH IN NUMBERS (2024)  
 **113**  
publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

## SDG 2



### RESEARCH ARTICLE

This research analyzes how rural families in Gunungkidul and Bangkalan coped economically during the pandemic. It finds that **household resilience depended on income, assets, and market access**, with Bangkalan households showing greater resilience than those in Gunungkidul. The study **concludes that stronger community support and government collaboration are needed to improve rural economic resilience.**

Open Access Article

**The Economic Security of Households Affected by the COVID-19 Pandemic in Rural Java and Madura**

by Ernoiz Antriyandarti <sup>1</sup>, Umi Barokah <sup>1</sup>, Wiwit Rahayu <sup>1</sup>, Herdis Herdiansyah <sup>2</sup>, Ihsannudin Ihsannudin <sup>3</sup> and Fadhill Adi Nugraha <sup>1</sup>

<sup>1</sup> Study Program of Agribusiness, Faculty of Agriculture, Universitas Sebelas Maret, Surakarta 57126, Indonesia  
<sup>2</sup> School of Environmental Science, Universitas Indonesia, Central Jakarta 10430, Indonesia  
<sup>3</sup> Agricultural Extension Department, Faculty of Agriculture, Jember University, Jember 68121, Indonesia

\* Author to whom correspondence should be addressed.

Sustainability 2024, 16(5), 2091; <https://doi.org/10.3390/su16052091>



2 ZERO HUNGER



# END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

## 1 | Agricultural Education for Sustainable Food Security

The guest lecture program organized by the Agrotechnology Study Program, Faculty of Agriculture, Universitas Sebelas Maret, carried the theme **“Utilization of UAV (Unmanned Aerial Vehicle) Imagery for Field Crop Performance Evaluation.”** Through drone imaging approaches, experts explained how to monitor crop conditions with precision, efficiency, and accuracy.

The data recording process involves three stages: **mission preparation, flight, and data processing.** This technology facilitates the early detection of pest infestations, plant diseases, and nutrient deficiencies that are often invisible to the naked eye, thereby **strengthening sustainable and resilient food production systems.**

## 2 | Strengthening Food Security Through Diversification and Local Preservation

Students from the Faculty of Agriculture, Universitas Sebelas Maret (UNS) Surakarta, who are part of the Student Creativity Program in Entrepreneurship (PKM-K), have developed **an innovative functional food** product—cereal made from processed hanjeli (Job’s tears) and bananas. The product, named Hanipang (short for Hanjeli Pisang), offers a **healthy alternative source** of nutrition while utilizing the economic and nutritional value of local crops.

### Pemanfaatan Citra UAV untuk Evaluasi Performa Tanaman di Lapangan

WAHONO

Disampaikan dalam Kuliah Pakar di Fakultas Pertanian  
Universitas Sebelas Maret  
25 Maret 2024

PROPERTY OF HUMAS UNS



Precision agriculture is a data-driven farming concept designed to enhance efficiency and environmental sustainability. UAVs or Unmanned Aerial Vehicles play a crucial role in supporting this practice through **aerial mapping, sensor applications, and software capable of identifying agricultural issues in detail.** Fixed-wing UAVs, with a flight radius of up to 700 hectares, enable efficient monitoring of large agricultural areas.



2 ZERO HUNGER



## END HUNGER, ACHIEVE FOOD SECURITY AND IMPROVED NUTRITION AND PROMOTE SUSTAINABLE AGRICULTURE

Hanipang combines nutrient-rich hanjeli with banana flour. The selected banana flour type is uter banana flour, which contains up to 17.588% resistant starch. This type of starch has been shown to effectively lower total and LDL (bad) cholesterol levels while increasing HDL (good) cholesterol levels by up to 50%. Although Hanipang is an instant breakfast product, it **retains significant health benefits, as the combination of flavonoids and resistant starch provides synergistic positive effects on the body.**

**Twenty-five MSME** members participated in an innovation workshop at The Lawu Fresh. They learned to process purple sweet potatoes into two flagship products: fiber-rich purple sweet potato cereal, ideal for healthy vegan or vegetarian breakfasts, and klengkam—a crispy, nutrient-rich snack. The training also covered modern packaging techniques using continuous sealer machines **to maintain product quality and expand market reach through smart packaging and informative labeling.**



In addition, the Regional Science and Technology Application Program (PIPK) team from the Vocational School of Universitas Sebelas Maret collaborated with the Puntukrejo MSME Group in Ngargoyoso, Karanganyar, **to develop various innovative products made from purple sweet potatoes.**

### 3 Social Action Through the Qurban Sampai Pelosok (QSP) Program to Achieve Food Security



The Zakat Collection Unit of Universitas Sebelas Maret (UPZ UNS), through the Qurban Sampai Pelosok (QSP) program, invites the public to share the blessings of qurban with underprivileged communities in remote areas that face food scarcity. Qurban donations entrusted to UPZ UNS are distributed through partner organizations and volunteer networks. In 2024, UPZ UNS once again implemented the QSP program with a total of **15 cows and 138 goats/sheep, supported by 214 individual donors and 6 institutional contributors.**



**S  
D  
G  
.  
S**

**3** **GOOD HEALTH  
AND WELL-BEING**



**R  
E  
P  
O  
R  
T**

“Ensuring healthy lives and promoting well-being at all ages is essential to sustainable development. There is an urgent need to fully eradicate a wide range of diseases and address many different persistent and emerging health issues.”

-THE Impact Rankings

# 3 GOOD HEALTH AND WELL-BEING



Number of	
Graduates	6.192
Graduates in health professions	927

“ **6.5**  
Impact Factor

RESEARCH IN NUMBERS (2024)  
 **241**  
publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

## SDG 3



**GC-MS AND IN SILICO ANALYSES REVEALED THE POTENTIAL INHIBITORY ACTIVITY OF COMPOUNDS ISOLATED FROM CIPLUKAN HERB (PHYSALIS ANGULATA L.) TARGETING GLUT-4 RECEPTORS**



### RESEARCH ARTICLE

The study identified bioactive compounds from *Physalis angulata* L. (ciplukan) using GC-MS and molecular docking, revealing that **campesterol and stigmasterol showed strong binding affinity to the AS160/GLUT4 pathway**, which regulates glucose uptake. These findings suggest that **ciplukan compounds have potential as natural antidiabetic agents by enhancing GLUT4-mediated glucose transport.**



### 3 GOOD HEALTH AND WELL-BEING



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

### 1 | UNS Care 2024: Expanding Access to Community Health Services

UNS Care 2024 represents a student-led initiative from Universitas Sebelas Maret (UNS) Surakarta **to improve access to health services for local communities.** The program took place in Kedokploso Hamlet, Pengkol, Nglipar, Gunungkidul, Yogyakarta. The initiative carried two main agendas. First, **a free health check-up** for Kedokploso residents, aimed at providing accessible basic health services directly to the community. Second, **a health education session** with the theme “Nutrition and Hypertension,” delivered by two qualified speakers: Dr. Martha Handoko, M.Kes., and Arinto Hadi, A.Md. Gizi, S.IP., M.Gizi.

UNS Care 2024 was a collaborative effort between students and several institutional partners, including the Student Executive Board (BEM) of UNS, UNS Hospital, the Faculty of Law BEM, and the Student Association of the Faculty of Sports (Himakor). **Through this program, communities gained easier access to healthcare services** by reducing barriers related to distance, infrastructure, and facilities—ultimately supporting improved public health and disease prevention.

### 2 | Self-Screening of Malnutrition Risk for Strengthening Family-Based Stunting Prevention

The Nutrition and Health Research Group of Universitas Sebelas Maret (UNS), in collaboration with Puskesmas Sambu, Boyolali Regency, developed **an innovative self-screening form for malnutrition risk.** This initiative was motivated by problem identification showing that family health efforts, one of the main pillars of stunting prevention had not yet fully met the targets at the partner health center.



### 3 GOOD HEALTH AND WELL-BEING



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

**Several key issues** were identified: the stunting prevalence reported by the health center in 2023 was 9.2%; the proportion of pregnant women experiencing chronic energy deficiency (CED) remained at 19.6%, exceeding the target of 11%, due to inadequate nutritional intake; the percentage of toddlers with increased body weight at the community health post (Posyandu) was only 69.93%, below the target of 86%, also due to insufficient nutrition; and the lack of knowledge among pregnant and breastfeeding mothers regarding stunting prevention led to poor childcare practices.

The community service program was carried out at Posyandu Mawar 4, Dukuh Sokawoyan, Candan Village, Sambu District, Boyolali. The activity **involved four lecturers from the Nutrition and Health Research Group** (Dr. Budiyantri Wiboworini, dr., M.Kes., Sp.GK; Dr. Yulia Sari, S.Si., M.Si; Nur Hafidha Hikmayani, dr., M.Clin.Epid., Ph.D; and Dr. Anik Lestari, dr., M.Kes), accompanied by five postgraduate students of Nutrition Science conducting fieldwork in Sambu District.

The partner representatives included the Head of Puskesmas Sambu, dr. Dwi Astuti Dian Andarwati; village midwife Elly Andriastuti, A.Md Keb; and nurse Ns. Nur Azizah, S.Kep. **The target participants were mothers or caregivers of toddlers, with a total of 56 individuals attending the event.**

### 3 Postgraduate Program UNS Public Health Partners with PADIMAS



The Community Service Group from the Postgraduate Program in Public Health of Universitas Sebelas Maret (UNS) Surakarta carried out **a community engagement program** at Jalan Gleges 23 Priobadan, Sriwedari Village, Laweyan District, Surakarta City on Tuesday, December 24, 2024. This activity was conducted in collaboration with the elderly group from Paguyuban Penyandang Diabetes Mellitus Surakarta (PADIMAS), which operates under the supervision of Klinik Pratama Jasmine 2.



### 3 GOOD HEALTH AND WELL-BEING



## ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

The primary focus of this initiative was **to provide education on Diabetes Mellitus and promote physical activity through diabetes exercise sessions led by the PADIMAS elderly group.** The program was implemented over two sessions, which included **health education on healthy lifestyle practices for individuals with Diabetes Mellitus, followed by structured exercise sessions and blood glucose monitoring.**

The results revealed a significant decrease in participants' blood glucose levels after engaging in physical activity, indicating the positive impact of diabetes exercise on blood sugar control. Additionally, **analysis of the education sessions showed an improvement in participants' knowledge of diabetes management.** This program is expected **to enhance health awareness and empower elderly individuals to manage their health through continuous education and regular physical activity.**

The partner representatives included the Head of Puskesmas Sambu, dr. Dwi Astuti Dian Andarwati; village midwife Elly Andriastuti, A.Md Keb; and nurse Ns. Nur Azizah, S.Kep. **The target participants were mothers or caregivers of toddlers, with a total of 56 individuals attending the event.**

### 4 Healthy Living with RS UNS at CFD Colomadu



Universitas Sebelas Maret Hospital (RS UNS) held a medical check-up and group exercise event during Car Free Day (CFD) Colomadu on Sunday, June 2, 2024. The activity aimed **to raise public awareness about health and promote the hospital's health services to the community.**

The medical check-up services provided included **blood pressure, blood sugar, and uric acid testing.** After the examination, visitors could consult with nurses from RS UNS and receive practical health advice. The event received a warm response from the public. This initiative reflects RS UNS's commitment to promoting preventive health and fostering closer engagement with the community.



3 GOOD HEALTH AND WELL-BEING



# ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGE

## 5 FK UNS Hosts the 2024 National HIV Research Network Meeting



The 2024 National HIV Research Network (JPHIV) Meeting, held in a hybrid format at Fakultas Kedokteran Universitas Sebelas Maret (FK UNS) Surakarta and via Zoom, successfully gathered more than 2,800 participants from various regions across Indonesia. With the theme **“Take the Right Path: Putting Human Rights at the Center to Achieve Optimal Health and Better HIV Outcomes,”** the event served as a collaborative platform connecting researchers, clinical practitioners, and HIV program stakeholders, offering an inclusive and interactive experience.

This event was a joint collaboration between FK UNS and Jaringan Penelitian HIV Indonesia (JPHIV-Ina), with support from Ministry of Health Republik Indonesia and UNAIDS Indonesia. Over **300 participants** attended the meeting in person at FK UNS, while an additional **2,500 participants** joined virtually through an interactive online platform. The hybrid format allowed for wider participation, overcoming geographical barriers and fostering stronger national collaboration in HIV research and advocacy.

## 6 48th Anniversary Celebration: UNS Promotes Healthy Living at Solo Car Free Day



To commemorate its 48th anniversary, Universitas Sebelas Maret (UNS) Surakarta, in collaboration with RS UNS and Bank Jateng, held a community service event during Car Free Day (CFD) on Jalan Slamet Riyadi, Solo on March 3, 2024. The event featured a series of health-focused activities, including a healthy heart exercise session, a UNS Expo, and a health talk show.





**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

# 4 QUALITY EDUCATION



“A high-quality education should be an area where universities excel. Education is a key gateway out of inequalities, especially multigenerational ones. In addition to improving quality of life, access to inclusive education can help equip locals with the tools required to develop innovative solutions to the world’s greatest problems.”

-THE Impact Rankings

### Number of

6.192

Graduates

6.192

Graduates who gained a qualification that entitled them to teach at primary school level

### Number of

27.604

students

9.032

students starting a degree

6.205

first-generation students starting a degree

“ 88.5 Impact Factor

RESEARCH IN NUMBERS (2024) 114 publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 4



## THE LEVEL OF TEACHER CREATIVITY IN DEVELOPING DIGITAL LEARNING MATERIALS ON LEARNING MANAGEMENT SYSTEM

### RESEARCH ARTICLE

The study found that elementary school teachers showed a **high level of creativity in developing digital learning materials** using Learning Management Systems (LMS) under Indonesia's Merdeka Curriculum. This creativity was shown to **positively impact student learning outcomes**, emphasizing the importance of supporting teachers' digital innovation skills.



## 4 QUALITY EDUCATION



# ACCESS TO KNOWLEDGE RESOURCES THROUGH VARIOUS EXCELLENT PROGRAMS

## 1 Efforts to Improve Learning Quality Through the Kampus Mengajar Program

Three students from the Faculty of Teacher Training and Education (FKIP) at Universitas Sebelas Maret (UNS) Surakarta, as part of the Kampus Mengajar Program under Merdeka Belajar Kampus Merdeka (MBKM) of Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi Republik Indonesia, collaborated with two students from Universitas Nahdlatul Ulama and Universitas Sahid Surakarta to implement several initiatives aimed at **improving the quality of learning** at SD Islam Amanah Ummah Surakarta.



The eighth Kampus Mengajar activity at SD Islam Amanah Ummah Surakarta is expected **to have a sustainable positive impact on students, teachers, and the school environment**. This program not only **enhances literacy and numeracy skills, learning quality, and school management but also provides valuable experiential learning opportunities** for students to contribute directly to the education sector.

## 2 Renewable Energy Education at Sekolah Alam in Solo Raya



Team 1.031 of the Merdeka Belajar Kampus Merdeka (MBKM) from the Mechanical Engineering Education Study Program (PTM), Faculty of Teacher Training and Education (FKIP) at UNS successfully held a teaching assistance activity titled **"Education on the Concept of New and Renewable Energy through Interactive Learning Media for Students of Sekolah Alam Solo Raya in Klaten Regency."** The activity was part of the MBKM Grant Program. The community partner for this program was Sekolah Alam Solo Raya (SELASAR) in Taji Village, Juwiring District, Klaten Regency.

To support the learning process, **the team designed three interactive modules focused on water turbines, wind turbines, and solar panels**. Additionally, **the students were introduced to entrepreneurship concepts** by utilizing these interactive learning tools as potential marketable products, highlighting their educational and economic value.

## 4 QUALITY EDUCATION



## ACCESS TO KNOWLEDGE RESOURCES THROUGH VARIOUS EXCELLENT PROGRAMS

### 3 UNS Presents the 2024 Eco-Friendly School Award to Schools in Solo Raya

UNS through its Subdirector of Green Campus and SDGs presented **the Eco-Friendly School Award 2024 to several elementary schools in the Solo Raya region**. The awarding ceremony was held in person at Ruang Madukara, UNS Inn, on Friday, October 18, 2024. This initiative aims to **foster environmental awareness in the education sector, especially at the elementary level**. Prior to the event, the Eco-Friendly School Award team had conducted outreach programs to participating schools. A total of **109 schools registered for the competition**. The program **supports green initiatives and SDG awareness, emphasizing that environmental education should start at an early age to build a sustainable mindset among future generations**.



### 4 KKN UNS Introduces Herbarium, Making Science Learning More Engaging at SD Kismoyoso

Group 38 KKN from UNS carried out their main work program at SD Negeri 3 Kismoyoso, Boyolali, by introducing herbarium-based science learning media. This activity took place on Wednesday, August 31 2024, and aimed

to provide an innovative learning approach for students. The herbarium serves as **a long-term learning medium for science** (IPAS) lessons at the school, benefiting not only students but also teachers by enriching teaching materials and methods.



### 5 FKIP UNS Participated on International PLP in the SEA Teacher Program

**24 students of FKIP UNS conducted teaching activities in Southeast Asian schools** for one month in November 2024 through **the South-East Asia (SEA) Teacher Program**. The SEA Teacher Project is a flagship program under the Southeast Asian Ministers of Education Organization (SEAMEO), designed to provide pre-service teachers with the opportunity to practice teaching in foreign institutions. Students are expected to enrich their practical knowledge and international networks.





**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

“Women and girls continue to suffer discrimination and violence in every part of the world. Gender equality is a fundamental human right, and a foundation for a peaceful, prosperous and sustainable world. Providing women and girls with equal access to education is a key part of delivering gender equality, but universities also have a wider role to drive forward gender equality in their communities.”

-THE Impact Rankings

# 5 GENDER EQUALITY



Number of	
employees	3.760
academic staff	1.950
senior academic staff	685
female senior academic staff	303

Number of	
students	27.604
students starting a degree	9.032
first-generation students starting a degree	6.205
women starting a degree	6.489

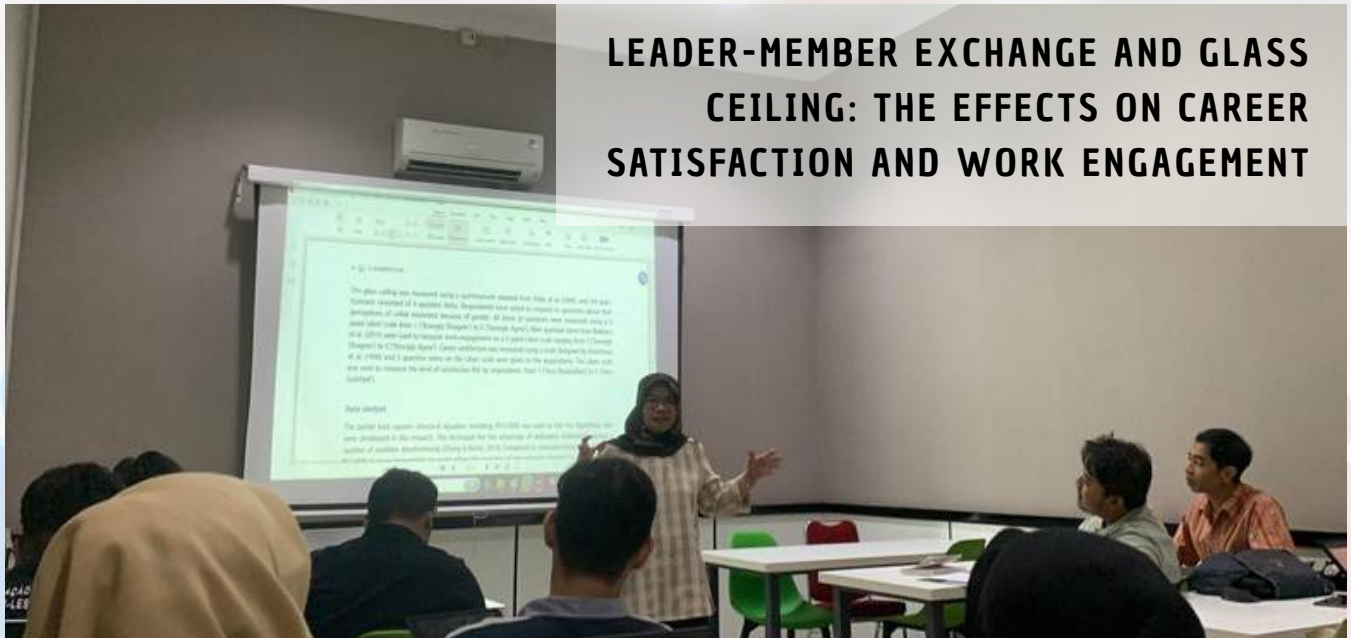
“  
**88.5**  
 Impact Factor

RESEARCH IN NUMBERS (2024)  
  
**40**  
 publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 5



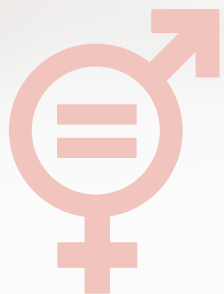
## LEADER-MEMBER EXCHANGE AND GLASS CEILING: THE EFFECTS ON CAREER SATISFACTION AND WORK ENGAGEMENT



### RESEARCH ARTICLE

The study found that a **strong leader-member relationship (LMX)** reduces perceptions of the glass ceiling, which in turn **increases career satisfaction and work engagement among female employees**. The glass ceiling partially mediates the link between LMX and these outcomes.

Management  
**Leader-member exchange and glass ceiling: the effects on career satisfaction and work engagement**  
 Sinto Sunaryo, Reza Rahardian, Risglyanti, Joko Suyono & Dian Ekowati  
 Article: 2336285 | Received 26 Apr 2022, Accepted 25 Mar 2024, Published online: 05 Apr 2024  
 Cite this article: <https://doi.org/10.1080/23311975.2024.2336285>



5 GENDER  
EQUALITY

# LIFE WITHOUT HARASSMENT, EXCLUSION, AND DISCRIMINATION

## 1 | UNS Council of Professors' Forum Highlights the Role of Female Academics in Realizing Indonesia Emas 2045

Universitas Sebelas Maret (UNS) Surakarta's Professors' Council underscored the significant contribution of female academics in advancing the vision of Indonesia Emas 2045. Their role is seen as essential in sustaining socio-cultural resilience and supporting national development. This was the main theme of the forum titled **"The Role of Female Academics in Anticipating Indonesia Emas 2045."**

The forum, organized by Commission III of the UNS Professors' Council, took place at the Ballroom of UNS Inn on July 15, 2024. It focused on **the strategic positioning of female academics in shaping policies and contributing to national transformation.** Discussions covered challenges, opportunities, and the evolving dynamics of women's roles in academia. Insights from the forum will be compiled into a book chapter to support future policy development.



## 2 | PPKG UNS Podcast Challenges Gender Stereotypes in STEM

The Center for Population and Gender Studies (PPKG) is a research center under the Institute for Research and Community Service (LPPM) of Universitas Sebelas Maret. Its primary goal is to **help realize a democratic, just, and non-discriminatory higher education environment that upholds human rights, religious and cultural values, diversity, unity, and national integrity.** PPKG aspires to become an internationally recognized Centre of Excellence with top accreditation (A), a strong branding index, a high group index, and a solid business index.



PPKG recently held another podcast session aimed at breaking gender stereotypes in STEM fields—traditionally dominated by men—by highlighting the achievements of successful women in these areas. The podcast, titled **"Being a High-Achieving Woman in Engineering? Why Not!!"** [PPKG UNS Podcast EPS.3].

5 GENDER  
EQUALITY

# LIFE WITHOUT HARASSMENT, EXCLUSION, AND DISCRIMINATION

## 3 PPKG UNS Holds Seminar and Workshop on Beauty Privilege and Gender-Based Violence

In commemoration of the 16 Hari Anti Kekerasan terhadap Perempuan (**16 Days of Activism Against Gender-Based Violence**), Pusat Penelitian Kependudukan dan Gender Universitas Sebelas Maret held a seminar and workshop themed “Cantik itu Ancaman? Membongkar Mitos Beauty Privilege dan Kekerasan terhadap Perempuan” on November 30, 2024.



The event aimed **to unpack the systemic impacts of beauty standards on women's rights and daily lives**. Speakers included Prof. Dr. Ismi Dwi Astuti Nurhaeni, M.Si., Chair of UNS Satgas PPKS, and Fitri Indriani Suroto, S.PWK, Putri Solo III 2023. Prof. Ismi discussed beauty privilege, sexism, and gender-based violence, while Fitri highlighted the psychological and social pressures linked to beauty standards.

The session included **interactive discussions and a creative workshop**, “Making Pipe Cleaner Flower Bouquet,” in collaboration with nuku.project. Forty-nine participants from various universities joined the event, which successfully fostered awareness and engagement on gender issues in academic spaces.

## 4 UNS Policy on Ending Discrimination

Universitas Sebelas Maret (UNS) implements an anti-discrimination policy toward women as a demonstration of its commitment to creating a safe, inclusive, and equitable campus environment. This effort is realized through strengthening the role of the Center for Gender-Based Violence Handling (PPKG) UNS as a service and advocacy institution, as well as through the implementation of **Rector's Regulation No. 48 of 2023 on the Prevention and Handling of Sexual Violence (PPKS)**, this regulation specifically regulates the prevention and handling of sexual violence within the university environment as a follow-up to Ministerial Regulation of Education, Culture, Research, and Technology No. 30 of 2021. This regulation includes **preventive measures, mechanisms for victim assistance and recovery, and sanctions for perpetrators, supported by the PPKS Task Force**. Through this policy, UNS reaffirms its commitment to fostering a safe, equal, and discrimination-free learning and working environment.



**S  
D  
G  
'  
S**



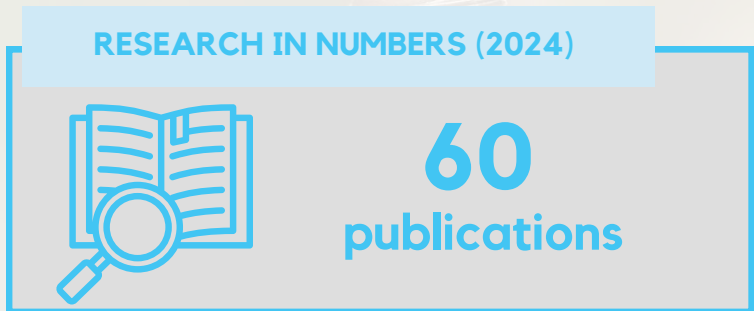
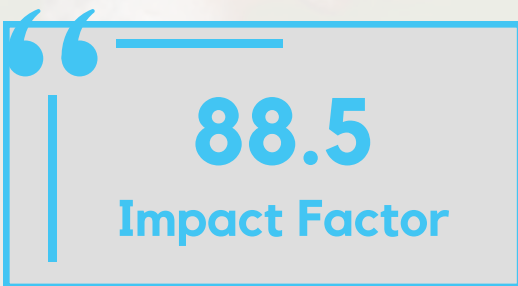
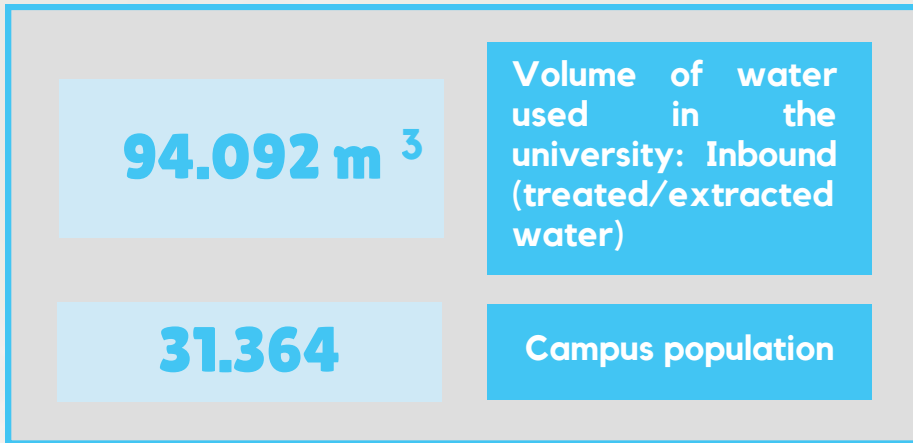
**R  
E  
P  
O  
R  
T**

# 6 CLEAN WATER AND SANITATION



“Without water we can’t live. Water supports out agriculture and aquaculture. Clean water is vital. However, due to bad economics or poor infrastructure, millions of people including children die every year from diseases associated with inadequate water supply, sanitation and hygiene.”

-THE Impact Rankings



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

## SDG 6



“

### RESEARCH ARTICLE

The study developed **PVDF/MIL-100(Cr) mixed matrix membranes** for efficient removal of anionic azo dyes like Congo Red. The membranes showed **fast adsorption, high selectivity, and good reusability**, making them promising for wastewater treatment in the textile industry.



## 6 CLEAN WATER AND SANITATION



# ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### 1 UNS Chemical Engineering Student Wins Second Place in National Essay Writing Competition

A student from the Chemical Engineering Study Program, Faculty of Engineering (FT) at Universitas Sebelas Maret, Muhammad Yazid Ar-Rasyid, **successfully won second place in the National Essay Writing Competition** organized by the Student Executive Board (BEM) of the Faculty of Industrial Technology, Universitas Pembangunan Nasional Veteran Yogyakarta. This national competition brought together young writers from universities across Indonesia to compete in scientific writing. After a series of rigorous selection stages, Yazid proudly brought home the runner-up trophy, representing FT UNS.

Yazid presented an innovative essay on **"The Production of Cellulose Acetate Membranes"** under the product name Celltane. This idea aims **to create a product capable of purifying dirty or murky water**, particularly targeting remote areas in Surakarta that still face limited access to clean water. By utilizing cellulose membrane-based technology, Celltane offers **a sustainable solution to address clean water needs** and aligns with the Sustainable Development Goals (SDGs) 2030, particularly Goal 6: Clean Water and Sanitation for All.



### 2 UPZ UNS Inaugurates Its 7th Clean Water Well Program in Sambirejo Lor, Jatiroto, Wonogiri

**60 residents**



The Zakat Collection Unit (UPZ) of Universitas Sebelas Maret reaffirmed **its commitment to improving community welfare by inaugurating its seventh clean water well program** in Sambirejo Lor, Jatiroto Village, Jatiroto District, Kabupaten Wonogiri. to help the community address water scarcity—especially during the dry season. This initiative is expected **to provide a long-term solution, improving public health, supporting economic activities, and enhancing the community's overall quality of life.**

## 6 CLEAN WATER AND SANITATION



# ENSURE AVAILABILITY AND SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR ALL

### 3 | UNS Engages Community in Biopore Creation Movement

Universitas Sebelas Maret continues to innovate in promoting sustainability by **encouraging community participation in environmental initiatives**. UNS carried out biopore creation activities at several locations in Kelurahan Jebres, including SD Negeri Purwoprajan II, SD Negeri Bulukantil, SD Negeri Kandangsapi, Taman Cerdas, Masjid Nurul Huda, and the Faculty of Teacher Training and Education (FKIP) UNS.

The activity actively **involved local residents in both creating and maintaining the biopores**. Besides improving water absorption, biopores also support better public health, enhance environmental aesthetics, and raise community awareness and commitment to protecting the environment.



### 4 | 100 Biopore Holes to Support Green Campus Program

In support of the Green Campus Movement, the Faculty of Mathematics and Natural Sciences (FMIPA) at UNS implemented a program **to create 100 biopore holes across 21,000 square meters of paved and green areas around the faculty**. This initiative aims to increase rainwater infiltration and improve soil quality, aligning with environmental conservation and sustainable resource management efforts.

Beyond **improving water absorption** and soil health, biopores also contribute to effective organic waste management. By producing natural compost from organic waste, the faculty helps **maintain campus cleanliness and enrich soil quality**, which benefits vegetation growth. Furthermore, the presence of biopores supports urban water conservation, particularly in areas vulnerable to waterlogging.





**S  
D  
G  
·  
S**

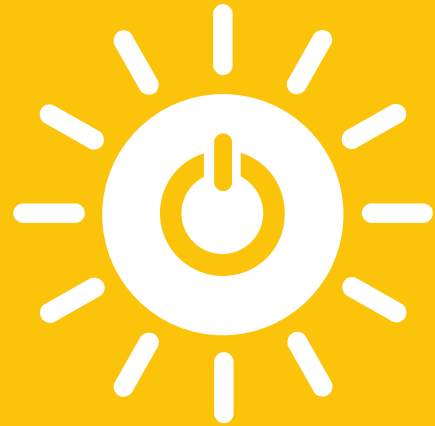


**R  
E  
P  
O  
R  
T**

“After water and food, energy is one of the key enablers of human life. Energy is central to nearly every major challenge and opportunity the world faces today and access to energy for all is essential. But energy needs to be available and affordable to all to allow future development, and it needs to be clean in order to ensure that the development can be sustainable.”

-THE Impact Rankings

# 7 AFFORDABLE AND CLEAN ENERGY



Number of	
Total energy used (GJ)	20,148
University floor space (m <sup>2</sup> )	505,885

“

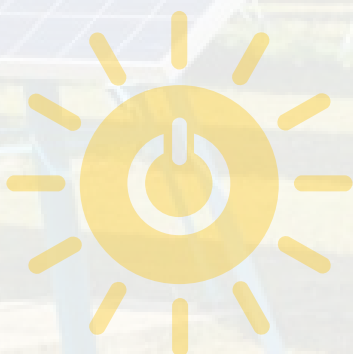
**14.1**

Impact Factor

RESEARCH IN NUMBERS (2024)

**97**

publications

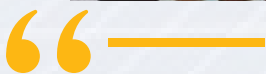


Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 7

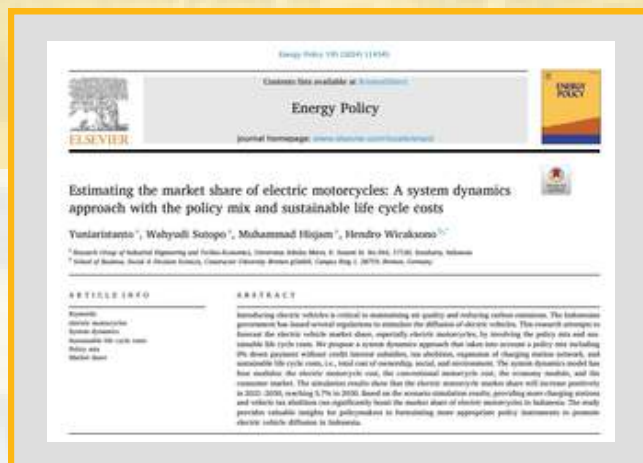
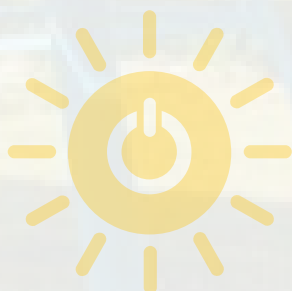


**ESTIMATING THE MARKET SHARE OF ELECTRIC MOTORCYCLES: A SYSTEM DYNAMICS APPROACH WITH THE POLICY MIX AND SUSTAINABLE LIFE CYCLE COSTS**



## RESEARCH ARTICLE

The study applies a **system-dynamics model** to forecast **electric motorcycle adoption** in Indonesia by 2030, integrating policy measures with sustainable life-cycle costs. The simulation projects an **electric motorcycle market share of about 5.7% by 2030**, if supported by policies like tax abolition and expanded charging infrastructure.



**7 AFFORDABLE AND CLEAN ENERGY**



**ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL**

**1 Renewable Energy Usage in Universitas Sebelas Maret**

Educational institutions are instrumental in accelerating the transition to renewable energy that prioritizes the **health of the planet** and ensures a more **resilient energy system** for generations to come. In acknowledgment of that, Universitas Sebelas Maret is committed to showcasing the future of renewable energy usage.

UNS's commitment to sustainable energy extends to **renewable power generation**. Solar panels installed throughout the campus and UNS Hospital converts sunlight into electricity for street lighting, parks, and backup reserves, **reducing dependence on fossil fuels and providing a cleaner, more affordable energy supply**. Alongside solar energy, UNS produces and utilizes biodiesel as a renewable fuel source for generators and other energy needs.



**9.308 GJ**  
Total energy used from low-carbon sources (GJ)

**2 Empowering Rural Communities Through Sustainable Energy Education and Participation**

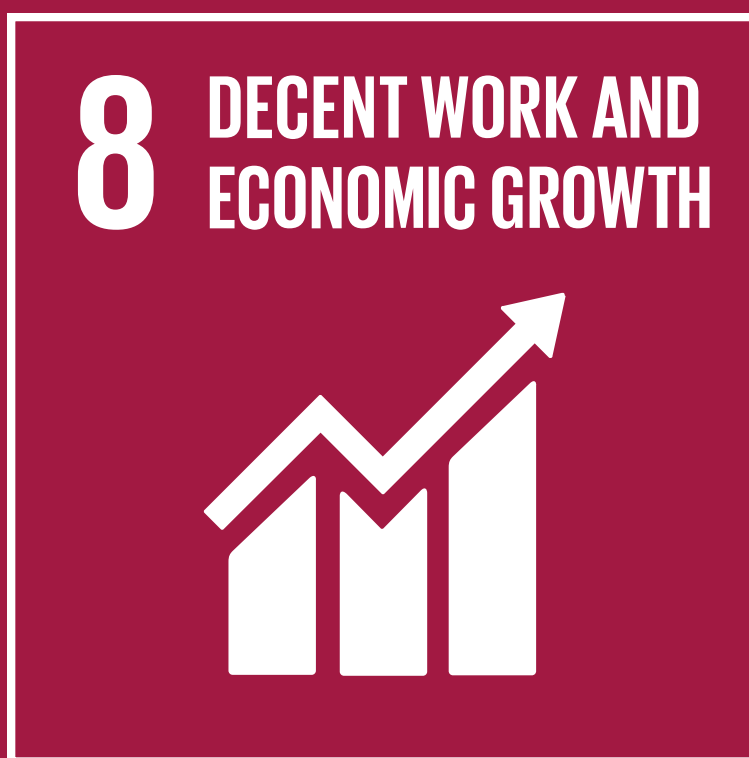


Students from Universitas Sebelas Maret introduced sustainable energy concepts to elementary students and residents of Kepyar, Wonogiri, through **interactive sessions on renewable energy sources and simple energy-saving technologies**. The program aimed to **build environmental awareness and encourage the adoption of clean energy practices at the community level**.

They also conducted participatory workshops to explore practical solutions such as solar panels, biogas systems, and energy-efficient tools. By **involving local residents in planning and discussion, the initiative sought to empower the community to develop feasible, sustainable energy strategies for long-term environmental and economic benefits**.



**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

# 8 DECENT WORK AND ECONOMIC GROWTH



“Decent work in safe and stable conditions is a vital component of helping people out of poverty, with the related aspects of reducing hunger and increasing health. The rise of precarious employment, modern slavery, and uneven growth has created threats to a sustainable future. Universities as employers can lead the way, as teachers can educate for the future, and as innovators can develop new and fairer ways of working.”

-THE Impact Rankings

### Number of

students

27.604

students with work placements for more than a month

12.832

### Number of

employees

3.760

employees on contracts of over 24 months

3.760

academic staff

1.950

expenditure (IDR)

1.850.122.866.706



88.5

Impact Factor

### RESEARCH IN NUMBERS (2024)



163

publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

## SDG 8



### The Disruptive Potential of Importance-Performance Eduction and Transforming Consumerism in Single-Used Plastic Reduction Initiatives

“

#### RESEARCH ARTICLE

This study examines how **education can encourage reduced use of single-use plastics** through the Importance-Performance Eduction (IPE) framework. It finds that problem- and project-based learning strongly **influence students' sustainable behaviors**, highlighting the need to strengthen these underdeveloped yet crucial educational areas to effectively change consumption habits.



## 8 DECENT WORK AND ECONOMIC GROWTH



# PROMOTE SUSTAINED, INCLUSIVE, AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### 1 | UNS Drives Economic Growth through Student Community Service Programs

The Community Service (KKN) Group 333 from Universitas Sebelas Maret (UNS), supervised by Dr. Dwi Prasetyani, S.E., M.Si., focused their program on "Mapping Regional and Area Potentials Based on Data for Rural Area Development." In line with this theme, the group collaborated with the **Tourism Awareness Group** of Blumbang Village, Tawangmangu, Karanganyar, **to develop the Bukit Mitis tourist destination.**

Bukit Mitis is a natural tourism site that offers camping experiences and various recreational facilities in a scenic and natural setting. The landscape is ideal for all age groups, allowing visitors to spend quality time outdoors with safe and comfortable amenities.

The development of this new tourism destination aims **to enhance its attractiveness by offering unique and innovative experiences for tourists.** The ultimate goal is to stimulate local economic growth by creating new job opportunities. This initiative is expected **to improve the community's quality of life, strengthen the positive image of the destination, and increase environmental awareness among both visitors and residents.**



UNS students participating in the KKN program in Panjerejo Village, Rejotangan Subdistrict, Tulungagung Regency, East Java, organized **an educational program titled "Quick and Accurate Techniques for Breeding Resistant Gourami Fish Against Pests and Diseases."** The session was supported by a resource person from the Dinas Perikanan Kabupaten Tulungagung.

The KKN 03 group's outreach aimed **to equip the local community with practical knowledge and skills for effective fish farming.** The program is expected to bring tangible benefits by **enhancing community capacity in aquaculture practices.** In the long term, the implementation of this knowledge is expected to contribute positively to the development of the local fisheries sector and the regional economy.



## 8 DECENT WORK AND ECONOMIC GROWTH



# PROMOTE SUSTAINED, INCLUSIVE, AND SUSTAINABLE ECONOMIC GROWTH, FULL AND PRODUCTIVE EMPLOYMENT AND DECENT WORK FOR ALL

### 2 Omah Anyam UNS Team Empowers Local MSMEs in Ngunut Village through Sociopreneurship

The Omah Anyam team from the Faculty of Agriculture at UNS carried out a sociopreneurship program as part of Innovillage, the largest sociopreneurship competition in Indonesia initiated by Telkom Indonesia and Telkom University. Innovillage encourages students across the country **to address social issues through the development of digital technologies aligned with the Sustainable Development Goals (SDGs).**



Recognizing the economic potential of local MSMEs in Ngunut Village, Jumantono, Karanganyar, the team implemented a program entitled **"Empowerment of Local Product Business Groups in Ngunut Village through Techno-Sociopreneurship and Good Manufacturing Practice (GMP) Toward a Smart Village."** The primary objective of this initiative is **to increase the village's and community's income.**

### 3 MBKM UNS Team Boosts Local Business Potential through "Explore Potensi Bisnis dari Desa" Seminar and MSME Bazaar

The Merdeka Belajar Kampus Merdeka (MBKM) student team from UNS organized **a seminar and MSME bazaar** in Kaliboto Village, Mojogedang, Karanganyar. The initiative, developed by students of the Agricultural Extension and Communication Study Program, carried the theme **"Explore Potensi Bisnis dari Desa" (Exploring Business Potential from the Village)**. The event was held at the Kaliboto Village Hall and attended by local communities, MSME owners, representatives from the Lembaga Pengembangan Teknologi Pedesaan Karanganyar (LPTP), and the village government.



The event aimed **to equip MSME actors with insights and strategies to improve product quality and marketability.** It was followed by a bazaar showcasing local MSME products, allowing them to gain broader exposure.



**S  
D  
G  
's**

**9** **INDUSTRY, INNOVATION  
AND INFRASTRUCTURE**



**R  
E  
P  
O  
R  
T**

“Investments in infrastructure – transport, irrigation, energy and information and communication technology – are crucial to achieving sustainable development and empowering communities in many countries.”

-THE Impact Rankings

# 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Number of	
Number of employees	3,760
Number of academic staff	1,950
Research income from industry and commerce: Total (IDR)	768,507,872,162

Number of	
Number of academic staff by subject area: STEM	937
Number of academic staff by subject area: Medicine	398
Number of academic staff by subject area: Arts & Humanities / Social sciences	615
Number of university spin-offs	111

“  
14.1  
Impact Factor

RESEARCH IN NUMBERS (2024)  
178  
publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 9



**FLY-ASH DERIVED CRYSTALLINE SI (CSI) IMPROVES THE CAPACITY AND ENERGY DENSITY OF  $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$  BATTERY: SYNTHESIS AND PERFORMANCE**



## RESEARCH ARTICLE

The study successfully converted type-C fly ash into high-purity crystalline silicon (cSi) and incorporated it into  $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$  battery cells, resulting in significantly improved capacity and energy density, demonstrating a promising route for sustainable battery material development



## 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



# BUILD RESILIENT, INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION, AND FOSTER INNOVATION

## 1 PUI Lithium Battery and Faculty of Engineering UNS Host 2024 International Conference

Universitas Sebelas Maret, through the Center of Excellence for Science and Technology (PUI) Lithium Battery in collaboration with the Faculty of Engineering, held the **2024 ICESTA and ICCEEAS International Conferences**. This event served as a scientific forum for sharing research findings, innovations, and technological advancements in sustainable energy, power systems, and electrical engineering. The main objective was **to foster global collaboration in supporting the clean energy transition and to strengthen Indonesia's role in the battery and future energy technology industries.**



The conference demonstrated its strong contribution to technological innovation and development through 54 accepted articles, all of which underwent a rigorous selection process published in leading international journals. It is expected that this conference will serve as **a platform to sustain collaboration and bridge knowledge and research exchanges with relevant institutions worldwide.**

## 2 Innovation in the Automotive Sector



The Bengawan Team from Universitas Sebelas Maret (UNS) achieved outstanding success at the **2024 Energy Efficient Car Contest (KMHE)**. The team showcased a highly efficient and innovative vehicle, **winning first place** in two categories: Prototype MPD Gasoline, with an impressive efficiency record of 743.10 km/liter, and Urban MPD Diesel, with a record of 226.83 km/liter. This remarkable achievement underscores UNS's strong commitment to **advancing sustainable and energy-efficient automotive technology innovation.**

**9** INDUSTRY, INNOVATION AND INFRASTRUCTURE



**BUILD RESILIENT, INFRASTRUCTURE, PROMOTE SUSTAINABLE INDUSTRIALISATION, AND FOSTER INNOVATION**

**3** Innovation to Enhance Productivity in the Aren Flour Industry



A research team from the Faculty of Engineering, Universitas Sebelas Maret (UNS) Surakarta successfully implemented **a Community Service and Research Program (P2M)** in Daleman Village, Tulung Subdistrict, Klaten Regency. This initiative aimed to **enhance the productivity of the local aren flour industry** through agricultural mechanization by introducing a specially designed aren grating and pressing machine to accelerate and simplify the production process.

The program yielded positive outcomes, including **improved production efficiency and significant savings in time and labor**. The increased output of aren extract has enabled farmers **to boost their production capacity and income, contributing to the growth and sustainability of local agro-industries**.

**4** Universitas Sebelas Maret (UNS) Develops and Tests BESS with PLN at Pelabuhan Ratu

Universitas Sebelas Maret (UNS) demonstrates its role in renewable energy innovation by **providing Battery Energy Storage System (BESS) training to PT PLN (Persero)**. In addition to training, UNS has independently **developed and produced BESS units** as a result of its research and technological advancement in power engineering. The **BESS prototype has been tested at PLN's Production Office in Pelabuhan Ratu, West Java**, to support efficiency and stability in renewable energy-based power systems. This initiative highlights UNS's commitment to advancing clean energy transition and enhancing human resource capacity in Indonesia's electricity sector.



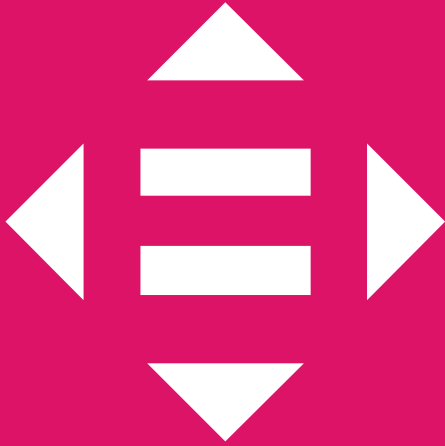


**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

# 10 REDUCED INEQUALITIES



“Equality needs to underpin every aspect of sustainability if the objectives of the SDGs are to be met. Although SDG 5 explores this through the prism of gender, SDG 10 takes a broader look at the intersectionality of disadvantage. This disadvantage can be felt through all of the other key issues raised by the SDGs – disadvantaged groups are both more likely to be unable to take advantage of progress and to suffer from the effects of climate change.”


-THE Impact Rankings

“

**88.5**

Impact Factor

RESEARCH IN NUMBERS (2024)



**178**

publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 10



## RESEARCH ARTICLE

The study found that **Bank Waqf Micro (BWM)** in Indonesia effectively **promotes financial inclusion and community empowerment** through interest-free, waqf-based microfinance, though it faces challenges in scalability and regulation.



10 REDUCED  
INEQUALITIES

# REDUCE INEQUALITY WITHIN AMONG COUNTRIES

## 1 | **MAPING AKSI 2024 Provides UNS Students the Opportunity to Support Children with Special Needs in Inclusive Schools**



Universitas Sebelas Maret (UNS) through the Center for Disability Studies (PSD) of Lembaga Penelitian dan Pengabdian kepada Masyarakat Universitas Sebelas Maret identified **a priority issue to address during the implementation of the Independent Campus Community Service Program (PKMI):** the need for Special Education Teachers (GPK). This role requires individuals with specific competencies and a background in Special Education (PLB) **to provide appropriate services for children with special needs (ABK) in inclusive elementary schools in Kota Surakarta.**

To help address this challenge, PSD LPPM UNS and its partners initiated an internship program that gives UNS students **the opportunity to participate in the MAPING** (Mahasiswa Pendamping Anak Berkebutuhan Khusus) AKSI (Anak Berkebutuhan Khusus di Sekolah Inklusi) program. This internship ran from July 22 to August 31, 2024, and involved 32 students from three faculties: the Faculty of Teacher Training and Education (FKIP), the Faculty of Sports (FKOR), and the Faculty of Psychology (Fapsi). Participants were students who had completed at least their fourth semester.

The internship took place in 16 inclusive elementary schools under UPT PLDPI, supporting GPKs in delivering inclusive education. The program was designed as **a form of community service and a concrete contribution to improving services for children with special needs in Surakarta.** It also aligns with the Merdeka Belajar Kampus Merdeka (MBKM) initiative, giving students valuable off-campus learning experiences. MAPING AKSI was implemented in three stages: preparation, implementation, and evaluation-reporting, aiming to provide sustainable solutions for partner schools.

## 10 REDUCED INEQUALITIES



# REDUCE INEQUALITY WITHIN AMONG COUNTRIES

## 2 Volunteer Forum for Students with Disabilities: UNS' New Step Toward an Inclusive Campus

Through the Center for Disability Studies (PSD) of LPPM, UNS launched the Volunteer Forum for Students with Disabilities (Fordis UNS), reinforcing its **commitment to becoming an inclusive and disability-friendly campus**. This forum serves as a platform for students who wish to support peers with disabilities in both academic and social life. A total of **177 students registered** as volunteers during the forum's establishment.



Fordis UNS will actively organize programs such as **learning support activities, accessibility facilities, and awareness campaigns on the importance of creating an inclusive and equitable campus environment**. Through this forum, UNS students with disabilities will have improved access to academic assistance and inclusive services.

## 3 Advancing Inclusive Education: 20 UNS Students Receive "Bayan Peduli" Scholarships

A total of 20 students with disabilities at UNS **successfully passed the selection process and were awarded scholarships** through the Bayan Peduli program. Recipients came from various faculties and study programs, including Special Education (PLB), Visual Communication Design (DKV), and Informatics. The scholarship aims to expand educational access **for students with disabilities by reducing financial barriers**. The 2024 recipients represent a range of disabilities, including hearing, visual, and physical impairments.

UNS Rector Prof. Dr. Hartono, dr. M.Si., expressed appreciation to PT Bayan Resources for its commitment **to advancing inclusive education. This scholarship program reflects a collaborative effort to ensure equitable higher education opportunities for students with disabilities**.



**10** REDUCED INEQUALITIES



# REDUCE INEQUALITY WITHIN AMONG COUNTRIES

**4** | **UNS Hosts 14th International Conference on Special Education in Southeast Asia Region 2024**

UNS proudly hosted the **14th International Conference on Special Education in South East Asia Region (ICSAR) 2024**, a major conference focusing on special education in Southeast Asia. The event brought together academics and experts from around the world to collaborate on **creating a safe and inclusive environment for people with special needs.**



During the opening session of ICSAR 2024, UNS also signed a Memorandum of Understanding (MoU) with PT Bayan Resources **to provide scholarships for students with disabilities** for the 2024/2025 academic year. This initiative reinforces UNS's leadership in promoting inclusive education both nationally and internationally.



**The number of students with disabilities**

visual disabilities	10	
hearing disabilities	40	
physical disabilities	12	

**62**

**5** | **The Commitment to Accessible Facilities for Individuals with Disabilities**

Universitas Sebelas Maret has committed to be a **disability-friendly campus**. UNS recognizes that access to education and full participation in campus life should be available to everyone, regardless of physical or cognitive abilities. Through **continuous improvements** to campus facilities, UNS ensures that **students and visitors with disabilities can thrive in an environment that meets their diverse needs.** As part of its digital innovation, UNS has launched the **SMART Disability Platform**, managed by the Center for Disability Studies (PSD) under LPPM UNS. The platform, which can be accessed through <https://psd.lppm.uns.ac.id/smart-disabilitas/>, serves as a digital hub to support accessibility, early detection, and empowerment for people with disabilities in education and daily life.



**S  
D  
G  
'  
S**

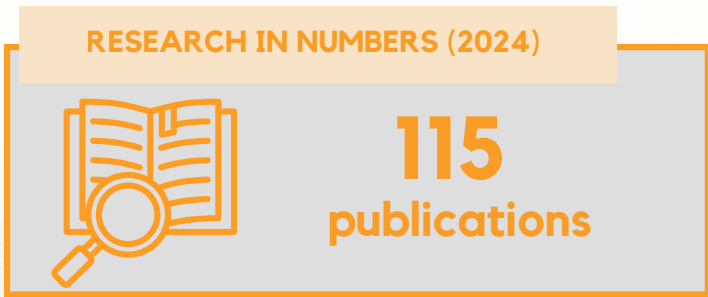
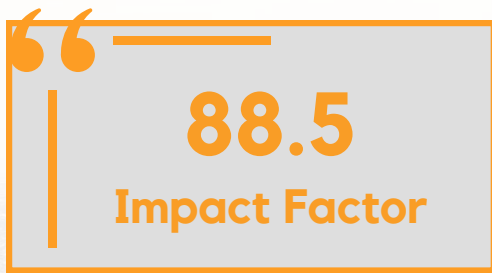


**R  
E  
P  
O  
R  
T**

“Cities and communities must themselves be sustainable. More and more of the world’s population lives in urban centres, and this is often the home of our universities too. Cities can be places of great innovation and opportunity, but they can also be home to intense poverty and inequality. The interaction between universities and their communities, urban and rural, needs to be a positive one that can last for generations.”

–THE Impact Rankings

# 11 SUSTAINABLE CITIES AND COMMUNITIES



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 11



## RETROFIT OF GREEN ARCHITECTURE THROUGH ADAPTIVE REUSE OF HERITAGE BUILDINGS IN SUSTAINABLE TOURISM MANAGEMENT



### RESEARCH ARTICLE

The study shows that **adapting heritage buildings with green architecture** retrofits like energy, water, and material efficiency **can promote sustainable tourism** while preserving cultural heritage and **supporting a circular economy**.



## 11 SUSTAINABLE CITIES AND COMMUNITIES



# MAKE CITIES INCLUSIVE, SAFE, RESILIENT, AND SUSTAINABLE

## 1 Fostering Arts, Heritage, and Sustainability Through Public Facilities at UNS

Universitas Sebelas Maret (UNS) demonstrates a strong commitment to arts, cultural heritage, and sustainability by **ensuring public access to facilities with historical, cultural, and social value**. Various facilities—including the G.P.H. Haryo Mataram Auditorium UNS, UNS Tower, UNS Inn, and UNS Library—serve not only as academic centers but also **as open spaces that encourage community engagement and cultural exchange**. Moreover, UNS is the first university in Indonesia to provide **six places of worship representing different religions, reflecting its commitment to religious tolerance, inclusivity, and social harmony**.



The university's network of facilities—including a hospital, medical center, stadium, sports hall, bookstore, Javanology pavilion, and multiple faculty auditoriums, further reinforces **its role as a hub for education, culture, and public well-being**. Each faculty building across disciplines such as cultural studies, law, engineering, psychology, medicine, economics, sports, teacher training, agriculture, vocational studies, information technology, sciences, social sciences, and arts is equipped with modern, accessible infrastructure designed to support both academic and community activities. Through these initiatives, **UNS integrates higher education with public access, cultural preservation, and sustainable development, positioning itself as a model institution for inclusive and environmentally conscious urban transformation**.



# 11 SUSTAINABLE CITIES AND COMMUNITIES



## MAKE CITIES INCLUSIVE, SAFE, RESILIENT, AND SUSTAINABLE

### 2 Affordable and Sustainable Student Accommodation



Universitas Sebelas Maret (UNS) actively supports the achievement of SDG 11 by ensuring **access to decent, safe, and affordable housing for its students**. The university provides inclusive dormitory facilities at reasonable prices to create a supportive and conducive academic environment. These dormitories, located within the main campus area and branch campuses, offer basic yet adequate facilities, including lounges, cafeterias, and well-furnished rooms. By situating housing close to academic facilities, **UNS reduces students' need for daily commuting, thereby minimizing energy consumption and supporting integrated campus development**. This strategic planning enhances campus sustainability and contributes to the creation of an organized urban environment.

Additionally, UNS ensures housing affordability through a range of pricing options and scholarship schemes. Students can choose between single and shared rooms at monthly rental rates starting from IDR 500,000 to IDR 1,500,000. Recipients of financial aid, such as UKT or KIPK scholarships, may also use their funds to rent affordable off-campus housing near the university. Numerous boarding houses around the campus **provide additional accommodation options**, ensuring that financial constraints do not hinder students' access to education. This housing strategy reflects **UNS's commitment to social inclusion, equity, and sustainable urban development**.





**S  
D  
G  
's**

**12 RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION**



**R  
E  
P  
O  
R  
T**

# 12 RESPONSIBLE CONSUMPTION AND PRODUCTION



“Much of the world’s economy is based around producing things for consumption. This drives the engine of industry. If we want the world to develop sustainably, we need to understand how to be more responsible at both ends of this cycle. This means promoting resource and energy efficiency, having a sustainable infrastructure, and providing access to basic services for all.”

**-THE Impact Rankings**

Number of	
Amount of waste generated (mt)	<b>122</b>
Amount of waste recycled (mt)	<b>91</b>
Amount of waste sent to landfill (mt)	<b>31</b>

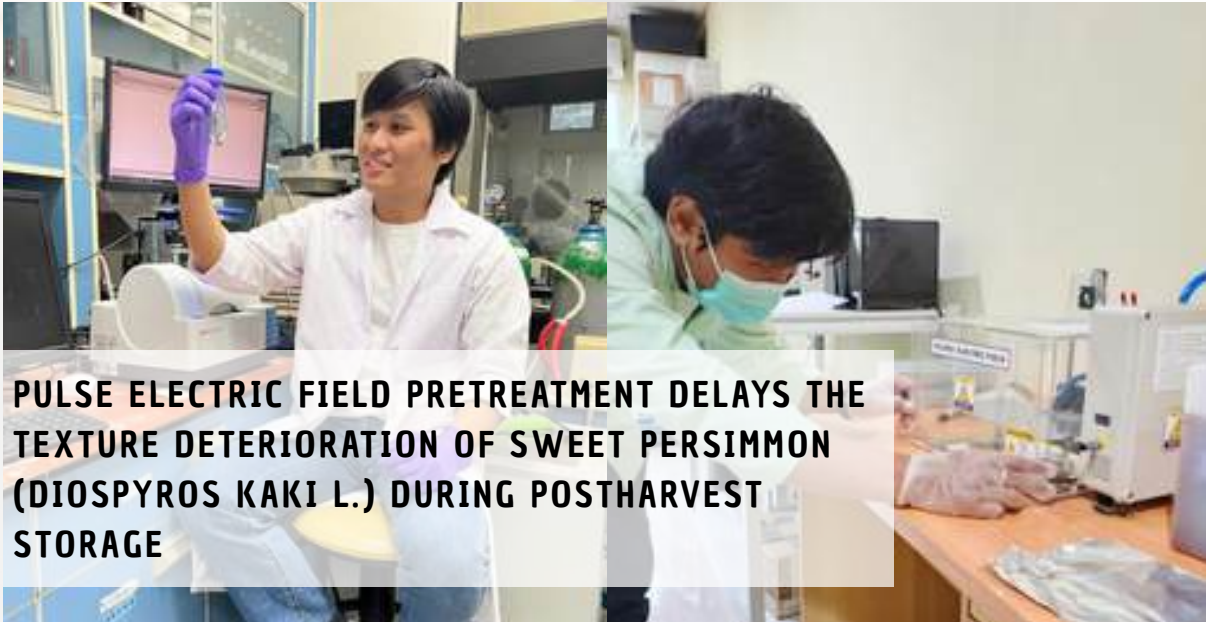
“  
**10.9**  
Impact Factor

RESEARCH IN NUMBERS (2024)  
  
**175**  
publications



Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

## SDG 12



**PULSE ELECTRIC FIELD PRETREATMENT DELAYS THE TEXTURE DETERIORATION OF SWEET PERSIMMON (*DIOSPYROS KAKI L.*) DURING POSTHARVEST STORAGE**

### RESEARCH ARTICLE

The study investigated how applying a **pulsed electric field (PEF) treatment to persimmon fruit can slow down texture softening** and extend its shelf-life. The results showed that **PEF effectively inhibited respiration rate, maintained firmness, and delayed softening** compared to untreated fruit, **making it a promising technique for post-harvest handling and storage of persimmons.**



**12 RESPONSIBLE CONSUMPTION AND PRODUCTION**



# ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

## 1 | Waste Tracking as a Strategic Approach

As part of its strong commitment to addressing waste management challenges, Universitas Sebelas Maret (UNS) has implemented a systematic waste tracking initiative. **By enabling the university to measure, monitor, and mitigate the environmental impact** of its waste generation. Through a **comprehensive and well-documented tracking system**, UNS ensures that data on campus waste is accurately recorded, forming a solid foundation for effective environmental management.

In 2024, the total amount of waste generated by the university reached 535.79 tons, comprising organic, inorganic, and toxic categories. Impressively, 473.74 tons of this waste were successfully recycled, **representing an 88.42% recycling rate**. This achievement reflects UNS's proactive approach to sustainable resource management and its commitment to fostering a more environmentally responsible campus.

## 2 | Maggot-Based Waste Education for Young Learners



A team of lecturers from Universitas Sebelas Maret has introduced **innovative maggot-based waste management techniques to elementary school students** as part of an environmental education initiative. This outreach program aims **to cultivate early awareness of sustainable practices** by demonstrating how black soldier fly larvae can decompose organic waste into valuable by-products, such as compost and animal feed. This initiative **reflects the university's commitment to promoting environmentally responsible behavior** at the community level, supporting the achievement of Sustainable Development Goal 12 on responsible consumption and production.

TOTAL WASTE

259.53 ton/year



224.29 ton/year



51.97 ton/year



RECYCLED

210.40 ton/year



213.07 ton/year



50.27 ton/year



**12** RESPONSIBLE  
CONSUMPTION  
AND PRODUCTION



# ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

## 3 | Research-Community Partnership: UNS & Sukoharjo Waste Bank



The Environmental and Natural Resources Management Research Group of Universitas Sebelas Maret collaborated with the Waste Bank Community in Kabupaten Sukoharjo **to promote sustainable waste management practices at the community level.** This activity focused on **strengthening community-based waste sorting and recycling initiatives to reduce environmental pollution and increase public awareness.** The collaboration also aimed to integrate academic research with practical solutions by providing training, knowledge sharing, and capacity building for waste bank members. Through this partnership, the university **supports community empowerment, circular economy practices, and the advancement of Sustainable Development Goal 12** on responsible consumption and production.

## 4 | Biogas from Organic Waste: UNS Physics Research Outreach

The Advanced Materials Research Group of the Physics Study Program at Universitas Sebelas Maret conducted a community service program focusing on **the utilization of organic waste for alternative energy production through biogas technology.** This initiative aimed to introduce and promote the use of biodigester systems to local communities and educational institutions as a sustainable **solution for managing kitchen waste, vegetable scraps, and other organic residues.** Through practical demonstrations and educational sessions, participants were guided to understand how biodigesters can convert organic waste into useful biogas and nutrient-rich organic fertilizer.





**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

“Climate change is a crisis that will affect every part of society, and every country. Universities need to be at the forefront of action to reduce the impact of climate change, especially amongst the poorest who will be the most affected.”

-THE Impact Rankings

# 13 CLIMATE ACTION



Total energy used (GJ)

20,148

Total energy used from low-carbon sources (GJ)

9,308

## RESEARCH IN NUMBERS (2024)



109 publications

14.1 Impact Factor



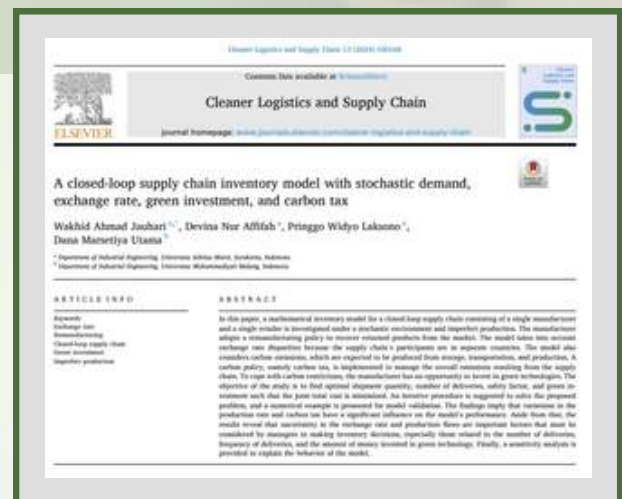
Universitas Sebelas Maret (UNS) is committed to disseminating and implementing the values of SDGs 1-17 through a wide range of education, research, and community engagement programs. One example of this commitment is the dissemination of this research on

# SDG 13



## RESEARCH ARTICLE

The study presents a **mathematical model for a closed-loop supply chain** that accounts for stochastic demand, exchange-rate fluctuations, green investment, and carbon taxation, demonstrating how manufacturers and retailers can **optimize inventory and investment decisions to maximize profitability while minimizing carbon emissions** and operating under global uncertainty.



13 CLIMATE ACTION



# TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACT

## 1 | Solar-Powered EV Charging Station for Energy Efficiency and Carbon Emission Reduction



The Faculty of Mathematics and Natural Sciences (FMIPA) at Universitas Sebelas Maret (UNS) continues to develop sustainable innovations through the construction of a solar-powered **Public Electric Vehicle Charging Station (SPKLU)**. This initiative represents a strategic effort by the faculty **to support energy conservation and carbon emission reduction within the campus environment**.

The SPKLU facility at FMIPA utilizes solar energy as its primary power source, with an effective production capacity of 11,000 watts within five hours. The system is supported by four solar panels that convert sunlight into electricity and a battery storage unit with a maximum capacity of 4,800 watts, ensuring stable power supply for vehicle charging. This technology represents **a significant step toward reducing greenhouse gas emissions**.

## 2 | The 2nd ICoAGPG 2024: International Conference by the Geography Education Program

The undergraduate and postgraduate programs of Geography Education at UNS organized the **2nd International Conference on Anthropocene, Global Environmental Change, and Powerful Geography (ICoAGPG) 2024**, carrying the theme "From Crisis to Opportunity: Adapting and Mitigating to Climate Change for Sustainable Development." This event was attended by more than **200 participants** from both domestic and international institutions via online platforms. The conference was held on Saturday, 10 August 2024, through Zoom Cloud Meeting and was divided into two sessions featuring leading speakers in the field.



13 CLIMATE ACTION



# TAKE URGENT ACTION TO COMBAT CLIMATE CHANGE AND ITS IMPACT

## 3 | BEM FH UNS Highlights Net Zero Emission at Semar Law Festival 2024



Net Zero Emissions (NZE) is a strategic agenda aimed at **reducing environmental pollution that contributes to global warming**. In Indonesia, the energy crisis has become a growing concern, prompting serious national efforts to address it. **To raise awareness among students**, the Student Executive Board of the Faculty of Law at UNS (BEM FH UNS) brought this issue into focus at the Semar Law Festival 2024.

By inviting law students from across Indonesia to participate in the Forum Mahasiswa Hukum Indonesia, BEM FH UNS provided **a platform to exchange innovative ideas and formulate legal policies supporting Indonesia's transition toward net zero emissions**. The event included an essay competition and a Forum Group Discussion (FGD) designed to generate strategic solutions and legal frameworks aligned with national sustainability goals.

## 4 | Rural Sociology Research Group Launches Eco Masjid An Nur to Strengthen ProKlim

The Rural Sociology Research Group of the Faculty of Agriculture at UNS officially launched the Eco Masjid An Nur. Held in Kepuh Hamlet, Karangturi, Gondangrejo, Karanganyar.

The launch of the Eco Masjid An Nur logo marked an important step in supporting the Program Kampung Iklim (ProKlim). The program aims to strengthen the role of mosques **as centers of environmental education in rural communities**. Despite their strong community ties, religious institutions such as mosques have so far played a limited role in climate adaptation and mitigation efforts.

The program includes **the introduction of community-based climate adaptation and mitigation practices centered around places of worship**. Concrete implementations include the **installation of Rainwater Harvesting (PAH) systems**, operational since Eid al-Adha, and the reuse of ablution water for sustainable food gardens.



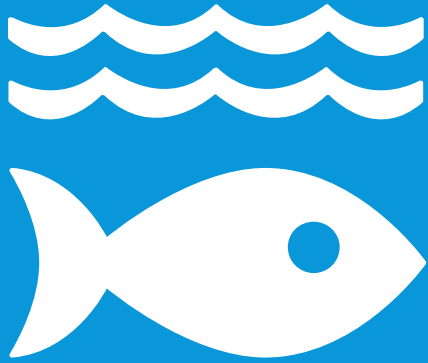


**S  
D  
G  
's**



**R  
E  
P  
O  
R  
T**

# 14 LIFE BELOW WATER



“The oceans, and the rivers and watersheds that link to them, are the largest part of our ecosystem. 40% of the world’s population lives within 100km of the coast, and we all rely – directly or indirectly – on the sea.”


-THE Impact Rankings

“

**4.9**

Impact Factor

RESEARCH IN NUMBERS (2024)

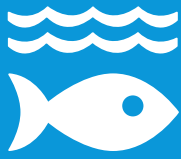


**37**

publications



14 LIFE BELOW WATER



## CONSERVE AND SUSTAINABILITY USE THE OCEANS, SEAS, AND MARINE RESOURCES FOR SUSTAINABILITY DEVELOPMENT

### 1 UNS Pours 1,000 Liters of Eco-Enzyme into the Lake on World Environment Day 2024

The academic community of Universitas Sebelas Maret (UNS) poured **1,000 liters of eco-enzyme into the UNS Lake in commemoration of World Environment Day 2024, which falls on June 5**. This eco-enzyme solution was prepared as part of efforts to purify and improve the water quality of the lake.

This year, the national theme for World Environment Day in Indonesia is "Addressing the Climate Crisis with Innovation and Principles of Justice." **Tackling the climate crisis, particularly in relation to water resources, plays a crucial role in improving the water cycle and managing the quality of both surface and groundwater.** In line with this, UNS carried out a lake-cleaning program using eco-enzyme to restore water quality.



During the event, UNS researchers and students **demonstrated how to produce eco-enzyme using organic waste collected from campus cafeterias and nearby households.** Once fully processed, the eco-enzyme was applied to the lake with the hope of improving water quality, reducing unpleasant odors, and mitigating pollution.

### 2 Liquid Tofu Waste Turned into Organic Fertilizer: UNS Students Tackle River Pollution in Kebumen



A student team from the Community Service scheme of UNS initiated a program to help manage tofu liquid waste in Dusun Kemitir, Bumirejo, Kebumen. The program was designed in response **to persistent river pollution caused by untreated tofu wastewater over the past two years.** Titled "Sahabat Desa: Sustainable Solutions for Tofu Waste into Liquid Organic Fertilizer for Kemitir Village Community". The training consisted of three sessions: two focused on the technical process of converting tofu wastewater into fertilizer, and one dedicated to packaging the final product.



S  
D  
G  
'  
S

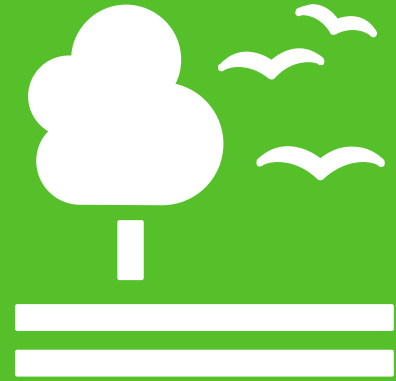


R  
E  
P  
O  
R  
T

“Life on land is a precious resource – we need to ensure that it is passed on to future generations, at a time when loss of biodiversity is an increasing concern. Different universities will have responsibility for very different landscapes and the life within, but all have a responsibility as stewards of their environment.”

–THE Impact Rankings

# 15 LIFE ON LAND



“

**4.2**

Impact Factor

RESEARCH IN NUMBERS (2024)

**79**

publications



15 LIFE ON LAND



## SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

### 1 Tree Planting and Greening Movement for Environmental Sustainability

The Faculty of Mathematics and Natural Sciences (FMIPA) of Universitas Sebelas Maret (UNS) Surakarta continued its **tree-planting tradition** for lecturers who have recently completed their doctoral studies as part of the university's environmental conservation efforts. In 2024, FMIPA welcomed seven new doctors who participated in the ceremonial tree planting. This activity serves as **a tangible symbol of the faculty's contribution to maintaining ecological balance** amid the growing challenges of climate change and environmental degradation.



The Faculty of Engineering (FT) of UNS also held **a tree-planting event to welcome nine newly awarded doctors**. Through this activity, the faculty not only celebrated academic achievement but also **reaffirmed its commitment to fostering a healthy, sustainable, and innovative academic environment**. The tree planting represents growth, rooted contribution, and dedication to a better future.



FMIPA UNS also organized the FMIPA Mengabdikan (FMIPA Serving the Community) program in 2024, centered in Bulu Subdistrict, specifically in Tiyaran and Gentan. The series of activities included **tree planting, distribution of food aid packages, free health check-ups for the elderly, clothing bazaar, and the FMIPA Teaching program for students** of SMPN 3 Bulu. The tree planting was carried out by handing over seedlings to the village heads of Tiyaran and Gentan, who then distributed them to local residents in need. **A total of 300 tree seedlings were distributed**, consisting of 40 teak, 40 gmelina, 40 sengon, 40 cashew, 40 petai, 40 lamtoro, 40 kaliandra, and 20 avocado trees. The initiative is expected to promote reforestation and environmental restoration in the two villages.



15 LIFE ON LAND



## SUSTAINABILITY MANAGE FOREST, COMBAT DESERTIFICATION, HALT AND REVERSE LAND DEGRADATION, HALT BIODIVERSITY LOSS

The Karya Salemba Empat (KSE) community UNS planted **40 trees** as part of the Gebyar Penanaman Pohon di 40 Titik se-Nusantara (National Tree Planting Festival at 40 Locations) in Sowijayan, Sewu, Jebres, Surakarta. The initiative aimed **to expand urban green spaces and involved collaborations with the Sibat Sewu and Karya Lepen communities** under the Bengawan Solo River Basin Agency (BBWS). The seedlings were provided through cooperation with the Solo Watershed Management Agency (BPDAS). The 40 planted trees consisted of fruit-bearing species selected for their productivity and contribution to the community.



UNS also planted **3,000 Sonokeling seedlings** during the Green Campaign Alas Bromo 2024 within the Special Purpose Forest Area (KHDTK) of Mount Bromo, Karanganyar. This green campaign supports the achievement of the FOLU Net Sink 2030 target at achieving a net reduction of greenhouse gas emissions by ensuring that carbon absorption exceeds emissions by 2030.

### 2 Environmental Service Compensation Scheme to Support Terrestrial Ecosystem Conservation



Students from the Merdeka Belajar Kampus Merdeka (MBKM) program at Universitas Sebelas Maret (UNS) Surakarta participated in **the Environmental Service Compensation (Imbal Jasa Lingkungan – IJL) initiative**, organized by the Institute for Rural Technology Development (LPTP) Surakarta. The IJL program aims **to prevent economic losses associated with environmental degradation while promoting ecosystem conservation and providing mutually beneficial income for land users.**

The IJL program, implemented in March 2024, was a collaboration between LPTP Surakarta and Aqua. Activities took place in several areas, including Dukuh Gumuk and Dukuh Kayulawang in Mriyan Village, Tamansari Subdistrict, and Pagerjurang Village, Musuk Subdistrict, Boyolali Regency. **The program serves as an important step in aligning local livelihoods with environmental sustainability and resource conservation.**



**S  
D  
G  
S**

**16 PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS**



**R  
E  
P  
O  
R  
T**

# 16 PEACE, JUSTICE AND STRONG INSTITUTIONS



“Peace and Justice go hand in hand – and indeed are vital for equity between people and countries. Supporting this we need our institutions to be strong enough to maintain a focus on delivering the SDGs. This can range from individual justice – eradicating modern slavery and people trafficking – to ensuring that our countries have the evidence base needed to react appropriately to crises.”


-THE Impact Rankings

“

**4.9**

Impact Factor

RESEARCH IN NUMBERS (2024)



**65**

publications



**16** PEACE, JUSTICE AND STRONG INSTITUTIONS



PROMOTE PEACEFUL AND INCLUSIVE SOCIETIES FOR SUSTAINABLE DEVELOPMENT, PROVIDE ACCESS TO JUSTICE FOR ALL AND BUILD EFFECTIVE, ACCOUNTABLE AND INCLUSIVE INSTITUTIONS AT ALL LEVELS

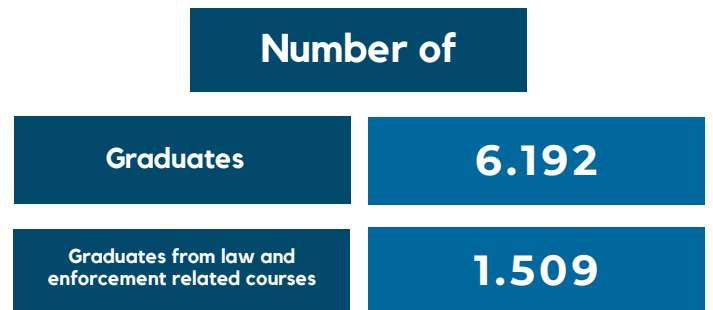
**1** | **Strengthening Public Services, FISIP UNS Launches Integrity Zone**



The Faculty of Social and Political Sciences (FISIP) at Universitas Sebelas Maret (UNS) Surakarta officially declared itself an **Integrity Zone (Zona Integritas/ZI)** on Tuesday, June 25, 2024, at the M. Sartono Hall, 2nd Floor of the FISIP UNS Building. This declaration represents FISIP UNS's concrete commitment to strengthening public services within the university.

The Integrity Zone is **part of the national bureaucratic reform acceleration program** initiated by Kementerian Pendayagunaan Aparatur Negara dan Reformasi Birokrasi Republik Indonesia (PANRB), which encourages work units to become Corruption-Free Zones (WBK) and Clean and Serving Bureaucracy Zones (WBBM). The launch event was attended by faculty leadership, including the Dean, Vice Deans, Heads of Study Programs, lecturers, education staff, and representatives of student organizations (Ormawa) within FISIP UNS.

This initiative serves as a key step in accelerating UNS's bureaucratic reform. It aims **to establish a well-organized, effective, and efficient governance system that can provide fast, accurate, and professional services aligned with the principles of good governance.**



**2** | **LPPM and LPPMP UNS Launch Integrity Zone Towards WBK and WBBM**

The Lembaga Penelitian dan Pengabdian kepada Masyarakat Universitas Sebelas Maret (LPPM) and Lembaga Pengembangan dan Penjaminan Mutu Pendidikan Universitas Sebelas Maret (LPPMP) officially launched their Integrity Zone as part of UNS's commitment to improving the quality of public services. This initiative is a tangible expression of the academic community's dedication to accelerating bureaucratic reform by restructuring governance systems to be more effective and efficient.



**S  
D  
G  
's**

**17 PARTNERSHIPS  
FOR THE GOALS**



**R  
E  
P  
O  
R  
T**

**“Sustainable development is the responsibility of every part of society, across the world. It cannot be achieved without linkages, across the goals, but also between institutions, governments, companies, NGOs, and people.”**

**-THE Impact Rankings**

# 17 PARTNERSHIPS FOR THE GOALS




“

**88.5**

**Impact Factor**

RESEARCH IN NUMBERS (2024)



**109**

**publications**



17 PARTNERSHIPS  
FOR THE GOALSIMPLEMENTATION AND REVITALIZATION  
OF GLOBAL PARTNERSHIPS FOR  
SUSTAINABLE DEVELOPMENT1 | UNS Signs Mutual Arrangement  
with the Australian Consulate  
General

Universitas Sebelas Maret (UNS) Surakarta has officially signed a **Mutual Arrangement with the Australian Consulate General**. The signing ceremony took place in person at the Ki Hadjar Dewantara Tower Ballroom, UNS, alongside the socialization of **Australia Awards Scholarship (AAS) and a panel discussion**. This partnership will remain in effect until June 3, 2026.

The agreement was signed by UNS Acting Vice-Rector for Planning, Collaboration, Business, and Innovation, Prof. Irwan Trinugroho, S.E., M.Sc., Ph.D., and Deputy Head of Post of the Australian Consulate General, Anthony Clark. The event was also attended by the Head of the UNS International Office, Rino Ardhan Nugroho, S.Sos., M.T.I., Ph.D., and the Consulate General staff from Surabaya.



Both UNS and the Australian Consulate General agreed to collaborate in implementing the #AussieBanget Corner program. This initiative aims to **increase awareness and understanding of Australia and its education system among students, academics, alumni, and the general public. It will also provide access to educational resources and scholarship opportunities in Australia.**

The #AussieBanget Corner, located at the UNS Library building, will feature Australia-themed books and educational materials, managed by the UNS International Office. It will serve as an open-access space for students to learn more about study opportunities in Australia and access the National Library of Australia's e-Trove online catalog.

UNS also **provides funding support for researchers and lecturers to conduct international research collaborations**. This initiative aims to strengthen the university's global research network, enhance academic excellence, and encourage the production of high-impact publications.



## 17 PARTNERSHIPS FOR THE GOALS



# IMPLEMENTATION AND REVITALIZATION OF GLOBAL PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT

## 2 | UNS Signs MoU with Leva Foundation

Universitas Sebelas Maret (UNS) **signed a Memorandum of Understanding (MoU) with Leva Foundation** on Tuesday, May 14, 2024. The signing ceremony was held at the Indraprasta Room, UNS Inn, in conjunction with the International Certification Training of Trainer Tangible Coding Program for Computational Thinking.

The MoU was signed by UNS Acting Vice-Rector for Research and Innovation, Prof. Dr. Kuncoro Diharjo, S.T., M.T., and Leva Foundation CEO, Ryan Le Roux. The event was also attended by the Director of the Directorate of Cooperation, Development, and Internationalization, Prof. Dr. Ir. Mohamad Harisudin, M.Si., faculty leaders, and institutional heads at UNS. Ryan Le Roux was accompanied by Jackson Cocs Tshabalala.

The MoU establishes **a five-year collaboration in education and research, serving as a foundation for joint initiatives**. The scope includes academic information and publication exchange, joint research, scientific seminars/conferences, guest lectures, teacher training for 21st-century skills workshops, and other mutually agreed activities.



## 3 | FEB UNS and DDTC Strengthen Collaboration in Tax Education

The Faculty of Economics and Business (FEB) of Universitas Sebelas Maret and DDTC have agreed to continue their **partnership in tax education**. The renewed collaboration was marked by the signing of a Memorandum of Agreement (MOA)

The MOA covers several initiatives, including **the DDTC Executive Internship Program, DDTC Professional Recruitment, seminars and training, workshops for lecturers, curriculum development in taxation, and joint research projects**. Darussalam, founder of DDTC, expressed the organization's openness to collaborative activities such as research and internship programs.



17 PARTNERSHIPS  
FOR THE GOALSIMPLEMENTATION AND REVITALIZATION  
OF GLOBAL PARTNERSHIPS FOR  
SUSTAINABLE DEVELOPMENT4 FEB UNS and SKK Migas—KKKS  
Jabanusa Host Public Lecture on  
the Role of the Upstream Oil and  
Gas Industry in Supporting  
Indonesia Emas 2045

The Faculty of Economics and Business (FEB) of Universitas Sebelas Maret collaborated with Satuan Kerja Khusus Pelaksana Kegiatan Usaha Hulu Minyak dan Gas Bumi (SKK Migas) – KKKS Jabanusa to host a public lecture titled **“The Role of the Upstream Oil and Gas Industry in Supporting Indonesia Emas 2045.”** The event took place on June 6, 2024, at the Suhardi Hall of FEB UNS.

SKK Migas Jabanusa’s Head of Formalities and Communications Department, Febrian Ihsan, **emphasized the importance of university and academic support for the sustainability of the upstream oil and gas sector.**

The event underscored that the upstream oil and gas industry is not limited to engineering graduates but is also relevant for economics and business students.

5 FISIP UNS Welcomes Delegation  
from the University of Passau,  
Germany

The Sociology Study Program of the Faculty of Social and Political Sciences (FISIP) at Universitas Sebelas Maret welcomed a delegation from University of Passau, Germany, on March 13, 2024.

A total of **24 University of Passau students participated in the visit**, representing three majors: International Cultural and Business Studies, Journalism and Strategic Communications, and Media and Communications.

The visit aimed **to deepen their understanding of Surakarta (Solo City), particularly in relation to urbanism and UNS’s waste bank initiatives.** The project encourages cross-cultural exchange and collaborative research on urban social change.





## Universitas Sebelas Maret SDG's REPORT 2024