

**UNIVERSITAS NEGERI SEMARANG
SDGS REPORT
2023**

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INTRODUCTION



Prof. Dr. S Martono, M.Si.

Rector of Universitas Negeri Semarang

All praise and gratitude to Allah Almighty, Universitas Negeri Semarang (UNNES) proudly present the UNNES Sustainable Development Goals (SDGs) Report 2023 in attempt to support the SDGs as part of our commitment to become a world-class reputable university, pioneer of excellence in education with conservation perspective. Over the years, UNNES has organised to integrate sustainability principles into all operational and academic aspects. This includes the implementation of sustainability-focused study and research programs, environmental conservation efforts, and collaboration with local communities and global partners to achieve real impact.

The achievement that UNNES has made in the field of SDGs reflect dedication of UNNES to quality education, reducing inequality, and environment protection. Through various community service programs, UNNES has played an active role in improving the welfare of local communities, especially in the aspects of health, education, and economic empowerment. In addition, commitment of UNNES to clean energy use and resource efficiency has helped reduce the campus' carbon footprint, in line with global targets to fight climate change.

The SDGs activities that UNNES implement are also not separated from strong collaboration with the government, non-governmental organisations, and international partners who support the implementation of SDGs on our campus. Going forward, UNNES will continue to commit in improving the quality of its sustainability programs, ensuring it can continue to have a wider positive impact on society and the world. UNNES would like to thank the entire academic community for their outstanding contributions and collective spirit in preparing the SDGs 2023 Report. In the future, UNNES will continue to work on optimising its services and activities with the spirit of supporting the SDGs so that it will be able to make a positive contribution to the national and international community.

About UNNES

A Journey of Growth and Sustainability

Universitas Negeri Semarang (UNNES) began in 1965 as the Institute of Teacher Training and Education (IKIP) Semarang, established to meet Indonesia's need for skilled educators post-independence. In 1999, IKIP Semarang evolved into UNNES, expanding its focus from teacher training to a comprehensive university offering diverse academic programs and research. UNNES's recognition as a legal entity university in 2022 marked a significant milestone, granting autonomy to manage resources and innovate in education, research, and community service. Guided by its vision "To Become a World-class Reputable University, Pioneer of Excellence in Education with a Conservation Perspective," UNNES has continually advanced its mission of academic excellence and environmental stewardship. This status enhances UNNES's alignment with Indonesia's development priorities and the global Sustainable Development Goals (SDGs).

What sets UNNES apart is its identity as a "Conservation University," emphasizing sustainability in all aspects of its operations. The Green Campus initiative reflects this commitment, promoting waste reduction, energy conservation, and eco-friendly transport. UNNES also incorporates sustainability into its curriculum and research, preparing students to be environmentally responsible leaders.

UNNES contributes actively to socioeconomic development through community outreach programs that support local education, health, and economic empowerment, addressing SDGs related to quality education, equality, and sustainable development. Collaborative efforts with global institutions enhance UNNES's ability to share knowledge and develop solutions for pressing challenges. The university's dedication to SDG-aligned initiatives is evident in its focus on renewable energy, gender equality, and biodiversity conservation. UNNES's unique conservation ethos, combined with its strategic partnerships, ensures continued impact as a leader in sustainability.

In summary, UNNES's transformation from IKIP Semarang to a legal entity university underscores its enduring commitment to educational excellence and sustainability, making it a model institution in Indonesia and beyond.

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Romadhiah Nurrul Anisah, S.Pd.

STORIES OF EXCELLENCE

Achieve greatness at our campus – World class university standards meet unparalleled excellence in education. Unlock your potential, master key skills, and shape a brilliant future. Proudly tagged as the “**World Reputable University**” and a “**Pioneer of Excellence in Education**”



1501+

2025 World University Rankings

1501+

The IMPACT Rankings



1201+

QS Sustainability Rankings 2024

751 - 800

ASIAN University Rankings 2024



37

World

5

Indonesia



SDG 01

NO POVERTY

Towards a World Without Poverty



17

NUMBER OF PUBLICATION

1.18

CITATION IMPACT

140

NUMBER OF CITATIONS



NO POVERTY

Towards a World Without Poverty

SDG 01

1 | Community and Student Entrepreneurship Initiatives

Universitas Negeri Semarang (UNNES) actively provides assistance and guidance to the local community in supporting the start-up of financially and socially sustainable businesses. This is achieved through various initiatives such as mentorship programs, training workshops, and access to university facilities.



UNNES provides assistance to UNNES students to get an entrepreneurial student development program. 9 collaboration teams of FMIPA students with students from other faculties in UNNES passed the selection of the 2023 **Student Entrepreneurship Development Program (P2MW)**. Hopefully, they will be given success in carrying out the planned programs, be able to give benefit UNNES and Indonesia, and be able to make UNNES more innovative and internationally reputable.



2 | UNNES Empowers Students with Sustainable Business Support and Education

To increase students' interest in entrepreneurship, the Ministry of Youth and Sports (Kemenpora) held an online Youth Entrepreneurship Lecture (Wira Muda) for UNNES students on Wednesday, October 5, 2023. This activity is a program under the guidance of the Deputy for Youth Development, which the Assistant Deputy carries out for Youth Entrepreneurship of the Ministry of Youth and Sports.

With the theme **“Change Yourself to be Smart Entrepreneur,”** this activity was opened by the Deputy for Youth Development, Asrorun Niam Sholeh, online. In his remarks, Niam emphasized the pivotal role of students in increasing the number of entrepreneurs.

“In the last two years, the Youth Development Index (IPP) trend has increased. However, in the field of employment, acceleration must continue to be carried out. One way is by lecturing on Youth Entrepreneurship,” added Niam.

This activity was attended by 253 students and was attended by Assistant Deputy for Youth Entrepreneurship Hendro Wicaksono, Principal Expert Policy Analyst at Deputy for Youth Development Imam Gunawan, Vice President of PT Pegadaian Semarang Nuril Islamiah. Also present at this activity were UNNES Vice Chancellor for Academic and Student Affairs Zaenuri, Chairman of the UNNES Entrepreneurship Advisory Team Anindya Ardiansari, and Owner of Alfi Zahra Hijab Anik Zahrotus Sajida.

This activity can change how students think about becoming intelligent entrepreneurs who can build collaborations to realize the Indonesian economy's progress. By increasing the youth in the world of entrepreneurs, it will produce many jobs that can contribute to realizing a Golden Indonesia 2045, a vision we can all work towards together.



NO POVERTY

Towards a World Without Poverty

SDG 01

3 | Commitment to Accessible Higher Education

UNNES is firmly committed to providing optimal support to all undergraduate and applied undergraduate students facing financial challenges but demonstrating high academic potential, as well as students from 3T regions (Frontier, Outermost, and Disadvantaged Areas), through its Affirmative Program. This commitment aligns with the mandate in Law No. 12 of 2012 on Higher Education, which emphasizes equal access to education. UNNES aims to allocate at least 20% of its seats tuition-free to students who show academic excellence but come from economically disadvantaged backgrounds. By doing so, UNNES strives to ensure equal opportunity for all students, including those facing financial constraints, to pursue quality education.

UNNES has exceeded the minimum requirements set by law, successfully providing more than the mandated quota for economically underprivileged students, which is a significant achievement. This success is supported by the increased availability of scholarships from various sources.

4 | Supporting Scholarship Students and Expanding International Partnerships Through the KNB Program

UNNES always provide assistance and supervision to scholarship students. Scholarship students must graduate on time. this is stated in the UNNES rector's regulation number 24 of 2016 concerning the provision of assistance for underprivileged students of UNNES.

UNNES through the ministry of education, culture, research and technology has been granted the trust to manage the Developing Country Partnership (KNB) scholarship. in 2023 UNNES received 6 international students from Pakistan, Papua New Guinea, Uganda, Thailand and Ghana.

Additionally, UNNES has raised the percentage of students receiving the lowest UKT (Tuition Fee) categories (Categories I and II) and expanded opportunities for affirmative students from 3T areas, including Papua, East Nusa Tenggara, and Maluku. Through these efforts, UNNES offers greater opportunities for economically disadvantaged students and those from remote regions to access quality higher education.

In fulfilling the requirements of Law No. 20 of 2003 on the National Education System, UNNES has allocated more than 20% of its quota for high-achieving students from underprivileged families, thus ensuring they can still pursue higher education. This quota is provided through several scholarship schemes, including Bidikmisi or the Indonesia Smart Card (KIP), the UNNES LAZIS Scholarship, support for students in UKT Categories I and II, and other sources. Of the total scholarship recipients, 97% (1,602 students) receive funding from the State Budget (APBN), indicating that APBN-funded scholarships remain dominant, with 3% coming from private sources.

This is stated in the Decision of The Director Of Institutional Development Of The Directorate General Of Higher Education, Riset, And Technology Ministry Of Education, Culture, Riset And Technology Republic Of Indonesia Number: 3068/E3/Kd.01.00/2021 Concerning The Appointment Of Foreign Student Scholarship Awardees Partnership Of Developing Countries (KNB) Undergraduate Program, Master Program, Aun-Seed/Net Scheme Master Program, And Doctoral Program For Fiscal Year 2023. Foreign students receiving the Developing Country Partnership Scholarship (KNB) in 2023 will carry out learning activities at universities that have been determined with reference to the provisions.



50483
NUMBER OF STUDENTS

SDG 02 

ZERO HUNGER

Ensuring Food for All

42

NUMBER OF
PUBLICATION

0.57

CITATION IMPACT

121

NUMBER OF CITATIONS





ZERO HUNGER

Ensuring Food for All



1 | Optimizes Waste Management Innovation

As part of its commitment to environmental sustainability, Universitas Negeri Semarang (UNNES) has implemented innovative approaches to organic waste management. With a processing capacity of up to 20 tons per day, UNNES successfully converts organic waste into economically valuable products through its Integrated Waste Processing Facility (TPST), managed by the UNNES Conservation Subdirectorate, located in Gang Ki Ageng Gribik, Sekaran, Gunungpati.

Annually, UNNES generates approximately 4,586.576 tons of organic waste, primarily consisting of 4,547.6 tons of leaf waste, followed by 14.976 tons of food waste, and other organic materials such as wood and tree branches (24 tons).

In its waste management practices, UNNES applies two key methods: downcycling (transforming organic waste into new products with lower value and quality) and upcycling (repurposing waste into products with higher value).

A prime example of upcycling is the conversion of leaf waste, which contributes approximately 12 tons daily, into high quality compost. This compost supports reforestation programs at UNNES and surrounding areas. In addition to its use in reforestation, the compost is also sold to generate economic benefits.

Food waste is processed into feed for the cultivation of maggots (Black Soldier Fly larvae), which not only assists in reducing organic waste but also has significant commercial value as animal feed. Although the current supply of food waste is limited, community support and participation play an essential role in enhancing food waste management through maggot farming.





ZERO HUNGER

Ensuring Food for All

SDG 02

2 | Supports Students with Food Assistance

UNNES consistently demonstrates a strong commitment to student welfare, with one initiative providing food supplies to students residing in boarding houses or dormitories. This distribution effort underscores UNNES's dedication to supporting students' well-being, aiming to prevent food insecurity and enabling students to better concentrate on their studies.

This program includes weekly distributions of free meals every Friday, with approximately 50-100 meals provided, sourced from donations by UNNES faculty and staff. During Ramadan, this support intensifies, with meals provided daily. Through these efforts, UNNES seeks to alleviate students' concerns over basic needs, allowing them to focus more fully on academic pursuits.



3 | Smart Agriculture Initiative to Combat National Hunger

The rapid development of the Internet of Things (IoT) and Artificial Intelligence (AI) has created opportunities for innovative solutions in various fields, including agriculture, which plays a crucial role in addressing national issues such as hunger and food security. At Universitas Negeri Semarang (UNNES), the Community Service Team from the Directorate of Information Systems and Public Relations (DSIH) initiated an IoT-based Smart Agriculture project for the TEGER 02 Farmer Group in Mangunsari Village. This initiative addresses the challenges faced by the farmer group, particularly the limited human resources, with 20 members managing 7 hectares of land, and inefficient manual irrigation systems. The goal is to optimize farming practices and improve productivity by utilizing technology to automate processes and increase precision in agricultural tasks, ultimately contributing to alleviating food scarcity at the local and national levels.

The Smart Agriculture project integrates AI and robotics to streamline agricultural activities, offering a more effective and efficient way of monitoring and controlling farming equipment, land conditions, and crop needs. The team, consisting of academic staff and students from UNNES, conducted a one-day offline event that included a ceremonial introduction and hands-on training for the local farmers. Positive feedback from the community, particularly from the TEGER 02 Farmer Group, highlighted the potential of this technology to improve agricultural practices and food production. The initiative will continue with regular support, including equipment distribution, monitoring, and education on the use of smart farming tools, with the long-term goal of enhancing productivity, promoting sustainable agriculture, and contributing to national efforts to combat hunger and improve food security.

SDG 03

GOOD HEALTH AND WELL-BEING

Health and Happiness for Everyone

234
NUMBER OF
PUBLICATION

4.0
CITATION IMPACT

8055
NUMBER OF CITATIONS





GOOD HEALTH AND WELL-BEING

Health and Happiness for Everyone

1 | Provides Accessible Mental Health Support for Students and Staff

In maintaining students' mental health, Universitas Negeri Semarang (UNNES) provides counseling services that all students can access. This free counseling service is located at the Language Service Center, Education Training, Career Guidance, and Disability under the auspices of Institute of Educational and Professional Development (LPPP UNNES).



In addition, the Counseling and Guidance (BK) Laboratory of Dean of Faculty of Education and Psychology (FIPP UNNES) also offers counseling services. The counseling services at the BK UNNES Laboratory include counseling with professionals, peer counseling, and individual counseling. The consultation provides services on various matters, including academic, professional development, and personal issues.

Furthermore, Students from the Public Health Program conducted a health promotion activity at Sampangan Market in Semarang. This event aims to raise community awareness regarding health, sanitation, and clean and healthy living practices. During the activity, UNNES students engaged in socialization efforts with vendors and market visitors on important health issues, such as preventing infectious diseases and maintaining a clean environment. They also provided information on proper handwashing techniques and safe food storage tips to mitigate health risks.

2 | Promotes Health through Community Outreach

UNNES students are actively engaged in various community service programs aimed at promoting health and well-being within local environments. In Lempuyang Village, the "Sports Village" program encourages community members to participate in regular physical activities to enhance their overall health.

Additionally, students from the Public Health department conducted health promotion activities at Ramai supermarket, educating employees accordance with Occupational Safety and Health Administration (OSHA) standards to improve workplace safety. UNNES students emphasized the importance of safety when using workplace equipment, including portable ladders. They provided relevant and practical information to raise employee awareness about the potential risks associated with improper use of tools. This activity is expected to prevent workplace accidents and enhance safety within the supermarket environment.





GOOD HEALTH AND WELL-BEING

Health and Happiness for Everyone

SDG 03

3 | Partners with Global Health Institutions for Improved Well-being

Evaplan GmbH, an institution affiliated with the University of Heidelberg, Germany, has partnered with Universitas Negeri Semarang (UNNES) in a project to enhance healthworkers' competencies in primary healthcare facilities, particularly in emergency services.

This collaboration involves two Study Programs within UNNES, the Public Health and Medicine programs under the Faculty of Medicine, with the Dean of the Faculty of Medicine Prof. Dr. Mahalul Azam, M.Kes. representing UNNES. Through this agreement, UNNES will serve as the executing party on behalf of Evaplan GmbH.



As part of this partnership, UNNES is responsible for carrying out the tasks outlined in the mutually agreed-upon Terms of Reference (ToR). These tasks will be executed with due diligence and adherence to professional standards from September 26 to November 30, 2023. UNNES is also accountable for submitting the deliverables to Evaplan GmbH for final review and approval.

UNNES ensures that this project will not interfere with other contractual obligations. This partnership is expected to significantly contribute to strengthening health workers' readiness in Indonesia to provide prompt and quality emergency services in primary healthcare facilities.

This international collaboration highlights UNNES's commitment to actively advancing the competencies of health workers in Indonesia while also strengthening its network with global institutions.

4 | Shares Facilities to Community and Public Use

Three Sports Colleges (Tri Eks STO) an annual event that brings together three sports colleges, was held this year on November 29, 2023.

This year, the Faculty of Sports Science at Universitas Negeri Semarang (FIK UNNES) is hosting the event, welcoming the Faculty of Sports at Universitas Sebelas Maret (UNS) and the Faculty of Sports Science and Health at Universitas Negeri Yogyakarta (FIKK UNY).



In addition to events and competitions, UNNES provides comprehensive facilities and infrastructure for athlete training, including modern pencak silat and wushu facilities and experienced coaches. These facilities are accessible to both UNNES students and the general public, offering athletes the opportunity to develop their skills and compete at national and international levels.

This annual event aims to strengthen solidarity and foster connections among these three institutions. Various sports will be featured, including Volleyball, Bados, Golf, Petanque, and Tennis.

This friendly competition at UNNES's Faculty of Sports Science is expected to encourage a healthy competitive spirit and a sense of camaraderie among participants.

SDG 04

QUALITY EDUCATION

Empowering Lives Through Quality Education

314

NUMBER OF PUBLICATION

0.93

CITATION IMPACT

2633

NUMBER OF CITATIONS





1 | Hosts Public Events for Community

Public lectures are open to the general public, provided by faculties, and in collaboration with external institutions. The general public is also provided with access to public lectures through UNNES TV streaming and YouTube streaming. For example, public lecture on "Higher Education and Artificial Intelligence: Euphoria and Alarmism" in collaboration with Google, REFO Indonesia, and GM.

Faculties are provided with funding to conduct public lectures within social service schemes. Funded social service supports faculties to conduct public lectures while holding community educational events. The general public comprises communities from different institutions, professions, social groups, businesses, regions, etc. For example, funding provided by UNNES Institute of Research and Community Services (page 1, 32-48).



2 | UNNES successfully held the Global Short Course 2023

Universitas Negeri Semarang (UNNES) successfully organized UNNES Global Short Course 2023 on October 13-15, attracting students from 21 countries to learn and experience Indonesian culture.

Participants participated in various activities, including workshops on arawitan, Batik, and Leaf Craft, providing them with firsthand experience in traditional Indonesian arts.

Additionally, they were taken on a cultural tour of Semarang, which introduced them to the historical richness and local attractions, such as colonial buildings, traditional markets, and historic areas.

This event demonstrates UNNES's commitment to promoting Indonesian culture to the world, encouraging cultural exchange, and strengthening international relations through education.

The participants, after gaining a deeper understanding of Indonesian art, traditions, and cultural values, are now cultural ambassadors. They are equipped to spread the uniqueness of the culture to the global community, thereby amplifying the impact of this event.



3 UNNES Library Unit Organizes Coordination Meeting and Sharing Session for Librarians

The Library Unit of Universitas Negeri Semarang (UNNES) organized a Coordination Meeting and Sharing Session for the Heads of Public University Libraries in Central Java on Thursday, September 15.

As part of its commitment to supporting higher education and implementing the Tri Dharma of Higher Education, the UNNES Library Unit plays a key role in fostering academic growth. One of the realizations of this commitment is the organization of the Coordination Meeting and Sharing Session for the Heads of Public Libraries across Central Java, held at the Rumah Ilmu Building, UNNES Library Unit.

The event, which lasted for four hours from 08:30 to 13:00 WIB, served as a platform for enhancing the credibility of UNNES, showcasing its modern library, and demonstrating its commitment to providing improved services while integrating library systems with the academic infrastructure of the university.

The event was attended by 66 participants, including Heads of Public University Libraries, Heads of Government Institution Libraries, and Heads of Regional Libraries from Central Java, along with several invited guests from outside the province.



The session was officially opened by UNNES Vice Rector for Academic Affairs, Prof. Dr. Zaenuri MSi Akt.

Among the speakers was Dr. Muhammad Rohmadi MHum, former Head of the UNNES Library Unit (2015–2019), who presented a session titled "Establishing Strategies for Developing a Modern Library Vision." This was followed by Setyo Yuwono SST, an Expert in the Procurement of Goods and Services at the Ministry of Education, Culture, Research, and Technology, who discussed "Strategic Planning and Procurement of Library Materials." The session was concluded by Dr. Yusro Edy Nugroho SS MHum, the current Head of the UNNES Library Unit, who presented on "Creating a Map for the Development of Library Service Infrastructure."

Dr. Muhammad Rohmadi emphasized the importance of enhancing communication with library users to better understand their needs, ensuring that library policies align with user requirements. He also highlighted the need for librarians to foster stronger communication with institutional leaders to gain the necessary support and attention for library development.

Dr. Yusro Edy Nugroho stressed that the goal of the Sharing Session was to facilitate collaboration and cooperation among libraries in Central Java, in line with the instructions from the Minister of Education, Culture, Research, and Technology of the Republic of Indonesia, Nadiem Anwar Makarim.

4 | UNNES Welcomes 6 International Students Under the Developing Countries Partnership Program

Universitas Negeri Semarang (UNNES) proudly welcomed 12 international students who have successfully secured scholarships under the Developing Countries Partnership Program (KNB) and the Darmasiswa Program on Wednesday (29/9). The arrival of these international students marks UNNES's commitment to supporting academic cooperation between countries and enriching the learning experience within the campus environment.

The KNB Scholarship Program, managed by the Ministry of Education, Culture, Research, and Technology, has successfully attracted high-achieving students from various parts of the world. Six international students studying at UNNES through this program come from diverse countries, including Pakistan, Ghana, South Sudan, Thailand, and Papua New Guinea. They are pursuing undergraduate and graduate degrees. In their first year, they can engage in courses on the Indonesian language and culture.

The KNB and Darmasiswa students will attend classes in the Indonesian language, such as traditional dance, batik making, and pencak silat.

Prof. Dr. Zaenuri, S.E., M.Si, Akt., Vice-Rector for Academic and Student Affairs at UNNES, warmly welcomed the international students. He hoped their experience at UNNES would be a valuable step in their academic and personal journeys and further strengthen international cooperation in education.

"Welcome to the UNNES campus, the campus of conservation. We wish you success in your studies and learning about Indonesian culture," said Prof. Zaenuri.



SDG 05

GENDER EQUALITY

Breaking Barriers, Creating Equality

29

NUMBER OF
PUBLICATION

1.5

CITATION IMPACT

544

NUMBER OF CITATIONS



GENDER EQUALITY

Breaking Barriers, Creating Equality

1 | UNNES Welcomes 31,805 New Female Students

Universitas Negeri Semarang (UNNES) continues to enhance transparency and inclusivity in its new student admissions process. One concrete step is systematically tracking the number of female applicants and students admitted annually.

In 2023, out of 164,534 applicants, 66% or approximately 108,592 were female applicants. From this group, 63% of the 50,483 students admitted were women, equating to around 31,805 female students.

This dedicated effort reflects UNNES' unwavering commitment to supporting gender equality in education, ensuring significant female representation in the admissions process. By continuously monitoring these ratios, UNNES aims to create a more inclusive academic environment that fosters active participation of women in various fields of study.

This development aligns with UNNES' spirit to become a world-class university promoting diversity and equality.



2 | Proportion of senior female academics

1405

Number of academic staff

180

Number of senior academic staff

65

Number of female senior academic staff

1552

Number of female graduates STEM Major

3661

Number of female graduates arts and humanities/social sciences major

282

Number of female graduates arts and humanities/social sciences major



3 | Strengthening the Role of Women, DWP UNNES Hosts Empowerment Seminar

The Dharma Wanita Persatuan of Universitas Negeri Semarang (DWP UNNES) organized an empowerment seminar to enhance women’s role in various aspects of life. The event took place in the Senate Room of the UNNES Rectorate on Thursday, May 25, and was attended by the DWP UNNES board and its members.

This empowerment seminar is an initiative of DWP UNNES, committed to increasing the participation and contribution of women in social, economic, and cultural development within the community. The event also aims to provide knowledge and insights to participants regarding significant issues faced by contemporary women and inspire them to realize their fullest potential.

In her opening remarks, the Chairwoman of DWP UNNES, Mrs. Karniti S. Martono, emphasized the importance of women’s empowerment across various aspects of life. She explained that this year’s seminar focuses on “Resilient and Independent Personalities for the Excellence of the Nation.”

“This is closely related to the ideal image of a woman who plays the role of a mother and wife, where a resilient personality and independence can lead our nation toward progress and brilliance,” stated Mrs. Karniti S. Martono.

Through this seminar, DWP UNNES aims to provide a platform for its board members and participants to share experiences, learn from expert speakers, and gain a deeper understanding of various critical issues confronting women.

The seminar featured Bonita D. Sempurno, a personality expert and PT YPI Training Centre and Consultancy director. Bonita shared her experiences of achieving success in a business world dominated by men. Her inspirational story motivated and reassured seminar participants that anyone, including women, can succeed.

Participants showed great enthusiasm and eagerness to engage in the various discussion sessions and workshops held during the event. They also had the opportunity to ask the speakers questions directly and gain new insights on different topics related to women’s empowerment.

In closing the seminar, Mrs. Karniti S. Martono thanked all participants, speakers, and the organizing committee for their contributions to the event’s success. She reaffirmed DWP UNNES’s commitment to continue hosting activities that promote women’s empowerment and activate their roles in building a better future.



SDG 06

CLEAN WATER AND SANITATION

Clean Water, Clear Future

58
NUMBER OF
PUBLICATION

1.02
CITATION IMPACT

434
NUMBER OF CITATIONS





CLEAN WATER AND SANITATION

Clean Water, Clear Future

1 | Implements Sustainable Wastewater Treatment Solutions

Universitas Negeri Semarang (UNNES) has established innovative wastewater treatment processes across its campus to promote sustainability, conserve water resources, and contribute to the city's flood mitigation efforts. These initiatives reduce environmental impact and showcase the university's commitment to responsible resource management.

At the Faculty of Economics, wastewater treatment begins with recycling residual ablation water. Instead of being disposed of, this water is repurposed for watering plants, effectively reducing water waste. Additionally, this wastewater is also recycled into a toilet cleaner, further demonstrating UNNES's focus on maximizing the reuse of resources.

The Faculty of Engineering has also played a pivotal role in wastewater treatment on campus. They have implemented a system to treat residual ablation water for use in watering the university's gardens, demonstrating their technical expertise in sustainable water management and their significant contribution to UNNES's sustainability efforts.

The Unnes Business Center (KWU) also applies a biological water treatment model to process grey water. This biological treatment method is being developed with plans to extend it to several key buildings across the campus, further enhancing UNNES's commitment to environmental sustainability.



The campus drainage system is critical in purifying wastewater before it flows into the university's artificial lake or water reservoir. The drainage system has multiple filtration levels to ensure that water is adequately treated before being stored in the reservoir.

This system provides a sustainable source of water that will eventually be used to irrigate the campus gardens and plants, further promoting water conservation. In line with efforts to replenish groundwater, all campus rivers are channeled into the UNNES water reservoir. This strategy not only helps to prevent runoff water from flowing directly into the city, a key step in contributing to flood mitigation in Semarang's central area, but also ensures that the local community has access to clean water resources.





2 | UNNES Promotes Water Conservation Awareness in the Wider Community

UNNES lecturers from Universitas Negeri Semarang (UNNES) have reaffirmed their commitment to community service through an impactful water conservation initiative at SMK Negeri 1 Pandak, Yogyakarta. The initiative aimed to raise awareness among students and teachers about the critical importance of sustainable water resource management.

The UNNES team, consisting of Dr. Rahma Hayati S.Si., M.Si, Jamhur M.T, Purnomo Adi Saputro S.Pd., M.Sc, and Dian Purbo Utomo M.Pd., Kons, all from the Department of Geography at UNNES, shared knowledge and practical applications of water conservation techniques. The activities included:

Water Conservation Awareness Sessions: The team provided insights into the current state of water resources in Indonesia, the environmental impacts of water pollution, and the long-term benefits of conservation efforts.



**Volume of water used in the university:
Inbound (treated/extracted water)**

2,467 m³

The results are the average daily water usage monitored by the system.

Campus population

54,215

The results are the average daily water usage monitored by the system.

Demonstration of Water Conservation Techniques: Several simple yet effective methods for reducing water usage in schools were showcased, including the installation of water-efficient toilets, rainwater harvesting systems, and the construction of infiltration wells. Dr. Rahma Hayati, M.Si, the leader of the team, emphasized the importance of these activities for fostering a deeper understanding of water conservation. "This initiative is designed to increase the awareness of students and teachers at SMK Negeri 1 Pandak about the importance of water conservation," she stated. "We hope they will apply the knowledge they've gained in their daily lives and become agents of change in preserving water resources."

The initiative received a warm response from the school administration. Endi Nurnawanta, M.Or, Acting Principal of SMK Negeri 1 Pandak, expressed gratitude for the efforts of the UNNES team. "We are truly grateful for this initiative. The knowledge and practical techniques shared will greatly benefit our students and teachers in maintaining sustainable water management within the school environment," he remarked.

Through this program, the UNNES faculty team aims to make a meaningful contribution to the conservation of water resources in Indonesia. Moving forward, UNNES plans to continue expanding collaborations with various stakeholders to foster a more environmentally conscious society that prioritizes the sustainability of natural resources.

SDG 07

AFFORDABLE AND CLEAN ENERGY

Energy for Tomorrow: Affordable
Accessible, and Clean

152

NUMBER OF
PUBLICATION

0.89

CITATION IMPACT

581

NUMBER OF CITATIONS





AFFORDABLE AND CLEAN ENERGY

SDG 07

Energy for Tomorrow: Affordable Accessible, and Clean

1 | UNNES Achieves Impressive 77.24% Efficiency with Energy-Saving Devices

Universitas Negeri Semarang (UNNES) remains committed to enhancing energy efficiency across its campus by implementing energy-saving devices. According to recent data, various types of energy-efficient equipment have been installed in multiple locations, including classrooms, lobbies, offices, and outdoor areas. This initiative is not just a part of UNNES's effort to create a more environmentally friendly and sustainable campus, but also a significant step towards reducing our carbon footprint and preserving our planet.

LED lighting has played a significant role in energy efficiency. Of the 78,342 installed lights, 99.73% are energy-efficient LED types. These lights are used in nearly every room, including classrooms, lobbies, and offices, providing more efficient lighting than conventional incandescent bulbs. In addition, garden lights equipped with solar panels support energy savings by operating only at night.

Reflectors installed across the campus also contribute to distributing light more effectively, with 96.78% of the 9,768 reflectors replaced by energy-efficient models. Energy-saving neon lights, such as the Philips Essential TL5 14W, enhance lighting efficiency in various campus areas.



Regarding air conditioning, UNNES has replaced several conventional AC units with energy-efficient models equipped with digital inverters. Of the 1,231 installed AC units, 66.69% now use digital inverter technology, including 4-way cassette ACs that distribute air more evenly in large rooms and wall-mounted ACs with similar features, significantly reducing energy consumption.

Moreover, UNNES has introduced innovations in presentation technology. LCD projectors are gradually being replaced by interactive smartboards that serve as projectors and displays. This reduces the need for separate manual projector screens, thereby saving energy.

Additionally, the campus has replaced conventional desktop PCs in laboratories and offices with compact PCs that integrate the CPU and monitor into a single device. This change has reduced energy consumption by 68.28% across the 3,721 PCs in use on campus.

Overall, the average efficiency of energy saving devices at UNNES has reached an impressive 77.24%. These efforts not only demonstrate UNNES's commitment to environmental conservation but also pave the way for a more sustainable future, leveraging eco-friendly technology and contributing to national energy savings.

Through these initiatives, UNNES is not just setting an example, but leading the way for other universities in Indonesia in adopting energy-efficient technology to create more sustainable and environmentally conscious campuses. This leadership role is something we can all be proud of and support.



AFFORDABLE AND CLEAN ENERGY

SDG 07

Energy for Tomorrow: Affordable Accessible, and Clean

2 | UNNES Hosts Engineering Conference to Promote environmentally friendly Technology

For the twelfth time, the Faculty of Engineering at Universitas Negeri Semarang (FT UNNES) hosted the Engineering International Conference (EIC) on Wednesday, September 20. In this edition of the conference, participants and presenters focused on environmentally friendly technologies.

A number of experts from four countries attended as speakers at one of Indonesia's largest engineering conferences.

The four speakers included Assoc. Prof. Pornthipa Ongkunaruk, Ph.D. from Kasetsart University, Thailand; Professor Dr. Mahadzir Bin Ishak from Universiti Malaysia Pahang; Prof. Samsudin Anis, Ph.D. from Universitas Negeri Semarang; and Dr. Stéphane Bressan from the National University of Singapore.

Dr. Wirawan Sumbodo, Dean of the Faculty of Engineering at UNNES, stated that the EIC marks a significant shift in international cooperation. Scientists must continue to collaborate on the innovation and implementation of environmentally friendly technologies for post-pandemic recovery.

"Engineering plays a strategic role in the innovation of environmentally friendly technologies," he said.

The focus on environmental issues was reflected in the conference's emphasis on technological trends and their applications that could impact sustainability.

"The discussions and exchanges at this conference are beneficial to you and contribute to your work on this subject," he added.

The role of engineering scientists is seen as crucial in addressing environmental issues that have now become global concerns. According to Wirawan, engineering scientists can contribute to environmental preservation through the development of environmentally friendly technologies. For example, addressing urban pollution, developing electric vehicles, and advancing renewable energy.

In addition to speakers from four countries, the conference featured 83 papers presented across six clusters: biomass and biotechnology, renewable energy, intelligent systems based on artificial intelligence, environmental monitoring, energy storage systems, and green transportation.





AFFORDABLE AND CLEAN ENERGY

Energy for Tomorrow: Affordable Accessible, and Clean

SDG 07

3 | UNNES Supports Local Industry with Clean Energy and Energy Efficiency Solutions

The Engineering Research Club (EneRC) Faculty of Engineering at Universitas Negeri Semarang (FT UNNES) handed over production equipment to the local community in Mangunsari Village, Semarang, on September 10, 2023. This donation is part of the Student Organization Capacity Strengthening Program (PPK ORMAWA), which focuses on supporting local businesses by developing eco-friendly practices and clean energy solutions. The event, which has been ongoing since June, targets the development of local economic ventures based on traditional knowledge, specifically aimed at the salted egg business in Mangunsari.

The EneRC team provided a machine for processing salted eggs and an automated 600-egg capacity oven with a control panel. This machine significantly improves the efficiency of the local community's egg salting process by reducing the spoilage of unsold duck eggs and enhancing product value. This initiative aims to help small businesses in Mangunsari thrive by implementing energy-efficient solutions that reduce waste and increase profitability.

Dr. Wirawan Sumbodo, Dean of the Faculty of Engineering at UNNES, attended the event and officially handed over the oven machine to the community. He hoped this initiative would encourage local entrepreneurship and improve livelihoods.

Beyond supporting local businesses, the project also reflects UNNES's commitment to the principles of tri dharma (the three pillars of higher education), which include education, research, and community service. Dr. Wirawan emphasized the importance of community service as a practical application of students' learning. "While teaching and research are common aspects of academic life, community service allows students to apply their knowledge in real-world situations," he said.

In addition to the students' contributions, the project received significant support from local officials. Ahmad Mustamil Khoiron, S.Pd., M.Pd., a field advisor for the project, highlighted the positive impact of UNNES students on the local economy. "The students have made significant progress, working systematically and collaborating with local authorities to access additional resources. Their efforts are not limited to training but also include connecting the local businesses with external experts," Khoiron explained.

Supriyanto, the acting head of Mangunsari Village, expressed his gratitude for the program's impact. "Our village has much potential, but we've faced several challenges. Thanks to the input and education from UNNES students over the past four months, we have gained valuable insights into management, production, and marketing in the digital world. We hope the monitoring continues even after the program ends," he said.

Through initiatives like this, UNNES contributes to the local economy and integrates clean energy solutions and efficiency into small-scale industries, improving sustainability and fostering long-term development.





AFFORDABLE AND CLEAN ENERGY

SDG 07

Energy for Tomorrow: Affordable Accessible, and Clean

4 | Reduce Carbon Dioxide Emissions, UNNES Implements Carbon Management Process

Universitas Negeri Semarang (UNNES) has demonstrated its commitment to environmental conservation by implementing a carbon management process to reduce carbon dioxide emissions within the campus. According to the latest report, the total carbon emissions at UNNES in 2023 amounted to 6,915.109 metric tons.

The carbon emissions on the UNNES campus are calculated from several primary sources, namely electricity consumption and transportation. The annual electricity consumption reached 7,007,130 kWh, resulting in carbon emissions of 5,885.989 metric tons. Additionally, transportation contributes significantly to the emissions, with bus services emitting 8.64 metric tons, cars 98.496 metric tons, and motorcycles 921.984 metric tons.

The average carbon footprint per individual on the UNNES campus was recorded at 0.125 metric tons per year, with a total campus population of 55,318 people. This means that each person's activities on campus, such as energy consumption and transportation, contribute to this figure, highlighting the importance of individual actions in reducing our overall carbon footprint.

These efforts are part of UNNES's initiative to reduce its environmental impact and support sustainable development goals. This includes initiatives such as promoting energy-efficient practices, encouraging the use of public transportation, and implementing waste reduction strategies. By implementing detailed calculations, UNNES continues to monitor and reduce the campus's carbon footprint, playing a crucial role in addressing climate change as an educational institution.



SDG 08

DECENT WORK AND ECONOMIC GROWTH

Decent Work, Economic Growth

123

NUMBER OF
PUBLICATION

1.18

CITATION IMPACT

1400

NUMBER OF CITATIONS



1 | DWP UNNES Delivers Educational Assistance to Children of Staff Members .

On Friday, October 13, 2023, the Dharma Wanita Persatuan (DWP) of Universitas Negeri Semarang (UNNES) presented educational assistance to the children of UNNES staff members. This event is part of the annual agenda organized by DWP UNNES.

The handover took place at the UNNES Rectorate building, with a total of 121 children receiving educational assistance. The recipients were children of Civil Servants with Group II and contract staff at UNNES. The children who received assistance are currently enrolled in kindergarten, elementary, middle, and high school.

In her speech, the Chairwoman of DWP, Karniti S. Martono, expressed hope that this educational assistance would motivate the children of staff members to excel in their studies. She also extended her gratitude to the UNNES Rector for his support in providing additional educational aid.

Delivering guidance, UNNES Rector, Dr. S. Martono, expressed his gratitude and pride toward DWP for organizing the event. According to him, this DWP initiative teaches us to be grateful and to care for the entire UNNES family for their dedication over the years.

“This event is a form of concern and also a way for us to bring joy to others,” he added.

The assistance was symbolically handed over to representatives of DWP subunits, including those from the Faculty of Education and Psychology, Faculty of Language and Arts, Faculty of Social Sciences, Faculty of Mathematics and Natural Sciences, Faculty of Engineering, Faculty of Sports Science, Faculty of Economics and Business, Faculty of Law, Faculty of Medicine, and the Central Office of DWP.

Although the amount of assistance provided was not large, DWP UNNES hopes that this educational aid will be beneficial and inspire the children to pursue academic excellence.



Expenditure per employee

2077
Number of employees

346
Number of employees on contractsof over 24 months

1405
Number of academic staff

50483
Number of students

SDG 09

INDUSTRY INOVATION AND INFRASTRUCTURE

Industry and Innovation, Catalysts for Change

116

NUMBER OF
PUBLICATION

0.87

CITATION IMPACT

457

NUMBER OF CITATIONS



1 | LPPM UNNES Launches “UNICE” Bottled Drinking Water Innovation

The Institute for Research and Community Service (LPPM) Universitas Negeri Semarang (UNNES) has launched UNICE, an innovative bottled drinking water developed from research conducted by LPPM UNNES. In collaboration with CV Tirta Makmur, a company that produces the Pelangi brand of mineral water, UNNES aims to ensure high-quality drinking water availability.

Prof. Dr. H. R. Benny Riyanto, Head of LPPM UNNES, expressed hope that UNICE would provide a healthy and quality drinking water solution for both UNNES and the wider community.

UNICE has been officially registered with the Directorate General of Intellectual Property at the Ministry of Law and Human Rights.

“This product is also expected to strengthen income generation for UNNES,” he noted at the launch event and Innovation Showcase held at the LPPM Building on the UNNES campus in Sekaran, Gunungpati, Semarang.

He added that the UNICE bottled water innovation is anticipated to become a flagship product and a source of pride for UNNES.



2 | RITSS UNNES: Technology Collaboration and Soy-Based Health Foods



The Rumah Inovasi Tempe Sekar Sari (RITSS), located on Kedawung V Street in Patemon, Gunungpati, Semarang City, Central Java, serves as a center for research, training, and production of fermented soybean-based foods and beverages such as tempeh, soy milk, tofu, and other soy products. Part of UNNES's Merdeka Belajar Kampus Merdeka (MBKM) initiative, particularly under the Kedaireka Matching Fund (MF) project titled Upgrading Technology and Digitalizing Soybean Processing in Central Java, RITSS functions as a training ground and business center in the field of biology for MBKM students.

RITSS supports the hygienic production of tempeh and tofu by implementing Good Hygienic Practices (GHPs) that comply with standards from Indonesia's Food and Drug Administration (BPOM). RITSS facilities include fermentation rooms, display areas, and production warehouses equipped with dual-heat peeling technology and pasteurization systems for soybean skin removal.

In the Kedawung V neighborhood, RITSS is also affiliated with Sekar Tekno, a conference that applies Low Temperature High Pressure Cooker (LTHPC) technology for processing Bandeng Presto (pressure-cooked milkfish).

Established to facilitate education and training for students and craftsmen interested in fermentation businesses, particularly tempeh production, RITSS focuses on enhancing the traditional tempeh production methods of family-owned and small-scale businesses. The tempeh produced here serves as a nutritious food source, whether as a side dish, vegetable ingredient, or additive in snacks and bread.

The RITSS food system development aims to advance tempeh businesses from small-scale production to high-value products with broader market reach. Through its refined production methods, RITSS generates high-quality tempeh suitable for daily consumption and with potential for medical use.

Sekar Sari Tempe Innovation House is also registered as a national tempeh brand under BPOM RI (MD 232311001969), packaged in 250-gram food-grade PP plastic. The tempeh produced at RITSS is designed to meet the nutritional needs of the general public and those with specific health conditions, such as metabolic diseases like diabetes, heart disease, and cancer, and as therapy for childhood diarrhea.

With the establishment of Rumah Inovasi Tempe Sekar Sari, UNNES aspires to support local, soy-based food innovations that promote health, while also empowering Indonesia's tempeh SMEs to create high-quality, competitive products.

Research income from industry and commerce

2077

Number of employees

1405

Number of academic staff

SDG 10

REDUCED INEQUALITIES

Creating a Fairer World



68
NUMBER OF
PUBLICATION

1.37
CITATION IMPACT

713
NUMBER OF CITATIONS



REDUCED INEQUALITIES

Creating a Fairer World



Do You Know

Indonesian Ministry of Education decision No.225/O/2000 contains the Universitas Negeri Semarang statute. The statute explicitly states UNNES's commitment to providing fair education for all. The commitment implies all groups, backgrounds, abilities, and identities. On October 20, 2022, UNNES became a legal entity state university (PTN-BH) under the Republic of Indonesia Government Regulation No. 36 of 2022, signed by President Ir Joko Widodo. The regulation is the latest review of UNNES policy on fair education for all.

Admissions are open to students with different backgrounds and abilities, including disabled students.



1 UNNES Enters Top 10 World's Most Disability-Friendly Universities

Universitas Negeri Semarang (UNNES) has been ranked 9th among Higher Education Institutions in the world for disability-friendly practices according to UNESA-DIMETRIC (Disability Inclusion Metrics) 2022. This ranking was participated by 125 universities worldwide.

UNESA officially announced this ranking in a hybrid event at the 11th floor Auditorium, Rectorate Building, Lidah Wetan Campus, Surabaya, on Thursday, December 8th, 2022.

UNNES Rector, Prof. Dr. S Martono MSi, expressed his appreciation for UNNES' achievement in securing the 9th global ranking and 5th national ranking as a disability-friendly campus, according to UNESA-Dometric.

According to Prof. Martono, this achievement will further motivate UNNES to develop a disability-friendly campus environment.

"UNNES is committed to continuously creating a campus environment that is friendly for people with disabilities," said the Rector of UNNES.

Prof. Martono explained that UNNES had accepted disabled students and continues to strive to provide facilities and infrastructure that are safe and comfortable for people with disabilities.

"UNNES is open to anyone who wants to study. UNNES also ensures that disabled students can attend classes comfortably," he added.

UNESA-DIMETRIC is the world's first ranking for disability-friendly campuses. Its goal is to create a friendly educational environment for people with disabilities.

Furthermore, it also aims to facilitate the creation of innovative programs and the exchange of ideas in support of sustainable, equitable, accountable, and responsible education.

Ten indicators are used in the assessment, including leadership, strategic planning, particular inclusion policies, institutional capacity, disability organization collaboration, infrastructure, suitable accommodations, students and staff, and education and community engagement research.

2 | Digital Literacy Workshop for People with Disabilities



FMIPA UNNES, in collaboration with Kominfo and Difapedia, successfully held the Digital Literacy Workshop for Persons with Disabilities, themed "Empowering and Enabling Independence for Persons with Disabilities through Inclusive Digital Transformation." The workshop took place on Wednesday, September 13, 2023, from 08:00 to 13:00 at the D12 Building, 3rd Floor, FMIPA Auditorium, Universitas Negeri Semarang.

Participants with and without disabilities attended the Digital Literacy Workshop for People with Disabilities. The event was moderated by All Fine Loretha, S.Pd., M.Pd. (Lecturer in the Non-formal Education Program at UNNES), featured three speakers: Abdurrahman Hamas Nahdly, Lalu Bintang Wahyu Putra, and Shindita Aprilia Nirmalasari.

Abdurrahman Hamas Nahdly presented "Safe and Wise in Digital Spaces." He outlined four pillars necessary to uphold and develop in today's digital era: competence, safety, culture, and ethics. He cited the 2022 Indonesian Digital Literacy Index score of 3.54.

"This score is in the medium range. Additionally, the lowest sub-index score is in digital safety. Aside from digital safety, fake news and hoaxes—especially with the upcoming elections—are current concerns," noted Abdurrahman on September 13.

The second speaker, Lalu Bintang Wahyu Putra, presented on "Social Media as a Tool for Disability Advocacy." He emphasized that people with disabilities should voice their rights and concerns to garner more attention, as content directly shared by them is far more impactful.

"Some content ideas for people with disabilities on social media could include hobbies, daily activities, or even reviews on accessibility for people with disabilities in public spaces," Lalu Bintang shared on September 13.

In the same session, Shindita Aprilia Nirmalasari provided insights into "E-commerce Digital Marketing."

"Nowadays, it's advisable to sell through marketplaces, given the digital era. When selling, prioritize trust and don't focus solely on profit," advised Shindita on September 13.

She further recommended that those starting a digital business should "just start." If they don't have a product, they can begin as a reseller or dropshipper, requiring no capital.

The presentation sessions were followed by a lively Q&A, with workshop participants engaging enthusiastically, as evidenced by the numerous questions, suggestions, and critiques.



SDG 11

SUSTAINABLE CITIES AND COMMUNITIES

Sustainable Living for All



113

NUMBER OF
PUBLICATION

0.91

CITATION IMPACT

478

NUMBER OF CITATIONS



There are four transportation initiatives to decrease private vehicles at UNNES :

1. Electric car shuttle service complimentary for all students, lecturers, and staff for internal transportation;
2. Integrated Public transportation in Semarang City (Trans Semarang) on Campus;
3. Bicycles rent for internal transportation. Electric bikes are also provided;
4. Paid parking area.



1 | Public Art Exhibition "Re- Planning"

The annual visual arts exhibition, titled *Guyub Rupa*, was organized by the Visual Arts Department students of the Faculty of Languages and Arts, Universitas Negeri Semarang, from May 12–20, 2023, at the B9 Gallery, FBS UNNES. This tenth *Guyub Rupa* exhibition carried the theme of Re-Planning, representing a self-reflective approach to reorganizing conditions as they should be. Marking its tenth anniversary, the exhibition returned after a two-year hiatus due to the pandemic.

Guyub Rupa is not solely an exhibition but a comprehensive art festival, including art performances, workshops, sharing sessions, an Exhibition Tour for Kids, cosplaying activities, and The Art of Beads. Zulfa Muhammadi, a 2018 Visual Arts student and chair of *Guyub Rupa 10*, explained that the initiative was founded to channel the talents of Visual Arts students. *Guyub Rupa* aims to provide a platform to unite artistic creations.

Zulfa described the exhibition as “the holiday celebration for Visual Arts students.” However, the exhibition is not just a celebration, it is also a valuable learning experience. It attracts not only Visual Arts students but also students from various departments and the general public. Several works by invited senior artists, including Kokoh Nugroho, Arief Hadinata, Danni Febriana, Gindring Wasted, and Sirin Farid Stevy, were showcased, intended to offer educational value to younger artists and enlighten the audience about the diversity of artistic expressions.



Additionally, 49 selected open-submission artists from various institutions, including ISI Yogyakarta, Universitas Negeri Semarang, Universitas Brawijaya, Universitas Negeri Padang, UIN Sunan Gunung Djati, Universitas Pendidikan Ganesha, Universitas Sebelas Maret, Universitas Mercu Buana, Universitas Pendidikan Indonesia, UIN Walisongo, ISI Surakarta, Universitas Sarjanawiyata Tamansiswa, Universitas Negeri Malang, and artists from the general public in cities such as Bekasi, Purwokerto, Klaten, Yogyakarta, Kendal, Tulungagung, Semarang, and Surakarta, participated. This diverse participation ensures that the exhibition is a true reflection of the rich and varied artistic landscape of Indonesia, making everyone feel included in this cultural celebration.

The visitor turnout exceeded initial expectations, with the exhibition prepared over approximately five months, attracting significant public interest. Due to this enthusiasm, the exhibition was extended to May 22.

Cahaya Indah Apriliyana from the Department of Javanese Language and Literature at UNNES commented that the exhibition served as an excellent platform for students to develop their creativity, talents, and interests while providing an educational experience for visitors. She hopes that *Guyub Rupa* will continue in future years.

According to Zulfa, each displayed piece conveys a moral message aligned with the exhibition’s Re-Planning theme. “We hope *Guyub Rupa* continues to grow, inviting a broader audience, educating people about art, and becoming even more engaging in the coming years,” she said, instilling a sense of hope and anticipation for the future of this cultural event.



2 | UNNES Opens Green Spaces for Public Access and Ecosystem Education

As a conservation-oriented university, Universitas Negeri Semarang (UNNES) is dedicated to maintaining ecosystem health, including monitoring the balance of aquatic ecosystems within its campus. One of the university's key initiatives is the development of "Campus Mini Forests," strategically located across the campus and open to public. These mini forests serve not only as greening efforts but also play a critical role in safeguarding the water quality within the surrounding aquatic ecosystems.



These mini forests are situated in various strategic areas, such as in front of the Faculty of Languages and Arts, around the Faculty of Engineering, and near the Faculty of Sports Science's soccer field. Beyond creating a visually lush environment, the mini forests also regulate groundwater quality. The trees absorb rainwater, reducing the risk of flooding, and maintain soil moisture as a year-round water reserve. In this way, UNNES not only preserves green land ecosystems but also actively supports the health of aquatic systems on a sustainable basis.

Functioning as diverse habitats, these mini forests provide homes for a variety of flora and fauna, enriching the campus's biodiversity. Various tree species such as mahogany, teak, and ketapang, along with unique fauna like the doves near the Faculty of Engineering, contribute to ecosystem balance. By creating a healthy environment for plants and animals, UNNES plays an active role in monitoring both land and aquatic ecosystems on campus, reducing erosion and sedimentation risks, and preserving water quality for long-term ecosystem stability.

This initiative reflects UNNES's commitment to becoming a campus that not only fosters greenery but also diligently monitors and nurtures the surrounding aquatic ecosystems. Through its mini forests, UNNES demonstrates its role as an educational institution committed to conservation and ecological balance, safeguarding the health of aquatic ecosystems and ensuring sustainability for future generations.



3 | UNNES Stages Wayang Kulit Performance to Commemorate Its 58th Anniversary

On Friday, June 9, 2023, Universitas Negeri Semarang (UNNES) hosted an all-night wayang kulit performance to celebrate its 58th anniversary. The event took place at the Rektorat Field, Sekaran Campus, Gunungpati. The play Wahyu Dayaningrat, performed by renowned puppeteer Ki Sigit Aryanto from Rembang, was chosen for this year's celebration.

According to UNNES Rector, Prof. Dr. S. Martono, M.Si., this wayang kulit performance was particularly special, marking its first return since the COVID-19 pandemic.

The wayang kulit performance is a staple of UNNES's anniversary celebrations, aligning with the university's commitment to conservation as part of its mission. "We strive to preserve cultural heritage, including Javanese traditions. We ask for everyone's support in making UNNES a leading institution in all fields," Prof. Martono added.



In addition to the wayang kulit show, UNNES held a ketoprak performance titled Kembang Cempaka Mulya on May 29, 2023. The play featured UNNES leaders, including the Rector, vice-rectors, deans, and other key administrative officials.

These annual events are UNNES's dedication to supporting local arts and cultural heritage through public performances by university choirs, theater groups, and orchestras, enriching the community and providing free access to traditional arts.





4 | UNNES Advances Green Transportation Initiatives

Universitas Negeri Semarang (UNNES) continues to intensify its commitment to environmental sustainability through the development of eco-friendly programs. Since early 2013, UNNES has introduced and implemented a green transportation policy, setting measurable targets for more sustainable commuting within the university community. This policy restricts fossil-fuel-powered vehicles on campus, resulting in positive environmental impacts: cleaner air, orderly parking practices, and the reduction of speeding incidents on campus.



In alignment with UNNES's vision of fostering an environmentally conscious and conservation-oriented academic community, the university actively encourages students, faculty, and staff to opt for eco-friendly transportation, including campus shuttles, public transit, bicycles, or walking. These efforts contribute to a sustainable mobility model across the UNNES campus, supporting a culture of conservation and environmental stewardship.



To further reduce the presence of private vehicles on campus, UNNES has introduced four key transportation initiatives:

Electric Car Shuttle Service:

A complimentary shuttle service for students, faculty, and staff for internal campus transport.

Integration with Public Transportation:

The Semarang City public transportation system (Trans Semarang) now includes a stop on campus, offering convenient and sustainable commuting options.

Bicycle Rental:

Both regular bicycles and electric bikes are available for rent, promoting low-emission travel.

Paid Parking Area: A paid parking system to manage and limit private vehicle use on campus.



SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

Living Sustainably, Rethinking
How We Consume

139
NUMBER OF
PUBLICATION

0.84
CITATION IMPACT

602
NUMBER OF CITATIONS



1 | UNNES Leads in Sustainable Waste Management and Reduces Single-Use Plastics

Universitas Negeri Semarang (UNNES) has established itself as a leader in environmental sustainability through its comprehensive waste management policies. In line with its commitment to sustainability, the university introduced an integrated waste management site (TPST) in 2019. Operational by October 2020, the TPST quickly became a crucial part of UNNES's eco-friendly initiatives, allowing the university to achieve zero waste status by 2021. Since then, UNNES has not contributed any waste to the Semarang City landfill.

The TPST has proven to be an exemplary model for other institutions, attracting numerous benchmarking visits from educational institutions and government agencies seeking to adopt similar waste management strategies. Its success demonstrates the university's dedication to minimizing environmental impact and contributing to a cleaner, more sustainable future.

Looking ahead, the university recognizes the need to evaluate and improve its waste management capacity continuously. In 2024, the integrated waste management site will undergo a capacity evaluation to accommodate increasing waste volumes. This may involve the procurement of new equipment or even the construction of a new facility. Plans to expand the TPST to 1400 m² are already underway to ensure that it remains a sustainable solution for the growing needs of the campus.

In addition to its waste management efforts, UNNES has taken proactive steps to reduce plastic waste on campus. In 2019, the UNNES Rector issued a regulation to limit the use of single-use plastics, which was supported by a Dean's Regulation and Circular Letter. The university distributed free reusable tumblers to the academic community as part of this initiative. Since then, carrying tumblers has become a culture at UNNES, with both staff and students actively participating in reducing plastic consumption.

UNNES promotes sustainable practices and fosters a culture of environmental responsibility in its academic community. As the university continues to develop and implement new sustainability measures, its role as a pioneer in integrated waste management and reduction of single-use plastics remains a model for other institutions to follow.



2 | Promotes Sustainability Through Digital Systems



UNNES's commitment to sustainability is reflected across its faculties, including the Faculty of Mathematics and Natural Sciences (MIPA), the Faculty of Law, and the Faculty of Social Sciences. These faculties have adopted sustainable practices, with the Faculty of Engineering requiring staff to use reusable tumblers. This approach fosters a greener campus culture by reducing waste and encouraging sustainable habits among students and staff.

In academics, UNNES has embraced the power of technology to reduce paper usage. Integrated systems like Sikadu for online academic activities and the online guidance system, Sitedi, have revolutionized academic interactions, making them more eco-friendly. These systems have not only minimized the need for physical documents and printing but also paved the way for a digital future, even during the pandemic, when the online exam system enabled thousands of students to take exams digitally.

Additionally, UNNES has implemented systems like Sianggar and Sikeu for budget planning and financial reporting, which use digital formats to reduce paper use in reporting activities.

The university has also developed the Siomon program, a collaborative effort to support environmental conservation. This program records tree-planting initiatives in collaboration with the Central Java Environmental and Forestry Agency, demonstrating that sustainability is a cause we all share. The program aims to monitor the sustainability of campus conservation efforts, uniting us in our commitment to a greener future.



Other green initiatives include digital library services, an essay competition on environmental conservation, and the Green School Ranking System assessment, which encourages schools to adopt eco-friendly practices.

Through these efforts, UNNES demonstrates its commitment to sustainability while raising awareness about environmental responsibility in all aspects of campus life.

SDG 13 CLIMATE ACTION

**Saving Our World,
One Step at a Time**

40
NUMBER OF
PUBLICATION

1.11
CITATION IMPACT

162
NUMBER OF CITATIONS





CLIMATE ACTION

Saving Our World, One Step at a Time

SDG 13

Do You Know

In 2023, the total energy use by UNNES from solar cells on the Sekaran Main Campus is 401,379.20 kWh (1,444.9251 GJ) or supplies around 5.72% of UNNES' electricity needs.

1 | UNNES Partners in Climate Resilience and Disaster Preparedness

Universitas Negeri Semarang (UNNES) consistently demonstrates its commitment to supporting climate change mitigation and adaptation through close collaboration with local governments. Each year, UNNES partners with the Environmental and Forestry Agency of Central Java Province to conduct evaluations within the Climate Village Program (Proklam), implemented across all districts and cities in Central Java. This program aims to enhance villages' readiness to face climate change impacts, including potential environmental disasters.

As a higher education institution based in Semarang, UNNES plays a pivotal role in maintaining communication and synergy with municipal and provincial governments. UNNES actively participates in working meetings and workshops organized by local governments, particularly in areas related to climate risk reduction.

Beyond contributing to program evaluations, UNNES engages in broader cooperative planning to anticipate climate-related disasters, including potential large-scale impacts such as population displacement within and across borders. In this capacity, UNNES collaborates with the Environmental and Forestry Agency and the Regional Disaster Management Agency of Central Java Province to develop more comprehensive mitigation strategies.

This collaboration is designed to create contingency plans that address various scenarios, including relocating populations affected by climate-induced disasters. With extensive research capacity and a broad scientific network, UNNES serves as an academic institution and a strategic partner to the government in formulating policies focused on climate resilience.

This partnership seeks to integrate academic research and innovation into disaster planning to help mitigate climate-related disasters' social, economic, and environmental impacts on both local and regional scales. Through sustained collaboration, UNNES is vital in building community resilience and providing research-based solutions for large-scale implementation.





CLIMATE ACTION

Saving Our World, One Step at a Time

SDG 13

2 | UNNES Evaluates Climate Village Program Support



An initiative by Universitas Negeri Semarang (UNNES) illustrates how academic institutions work with local communities and government bodies to fortify climate resilience. UNNES's team, led by the Vice Dean of FMIPA, Dr. Zaenal Abidin, conducted assessments of the Kampung Iklim (Climate Village) Program.

This program carried out in multiple villages across Semarang and Demak, focuses on equipping communities with skills to withstand climate-related challenges better. UNNES faculty and students provided training on sustainable practices such as eco brick production, urban farming, and bio floc catfish farming—methods that aim to improve environmental conservation and community resilience.

The program's practical workshops, including rainwater harvesting installation and biopore technology, demonstrate the university's active role in climate adaptation efforts. These projects enable communities to efficiently manage water resources, reducing vulnerability to drought and flooding. Additionally, UNNES students worked closely with local waste management initiatives, educating residents on eco-friendly waste processing techniques, like producing eco-enzymatic cleaning products and organic fertilizers.

Dr. Zaenal highlighted the importance of embedding knowledge within communities, noting that the involvement of students and expert partners helps ensure that climate adaptation practices become part of local life. Programs like Kampung Iklim are fundamental in building a collaborative framework where universities and governments work together to address the increasing likelihood of climate-induced displacement. This partnership underscores how academic institutions can provide immediate support and long-term resilience strategies as part of national disaster planning efforts.

3 | Promoting Environmental Preservation: UNNES and Djarum Foundation Set to Plant 3,500 Trees

Universitas Negeri Semarang (UNNES), in collaboration with the Djarum Foundation, is set to launch a large-scale tree-planting initiative as a concrete commitment to environmental preservation. Driven by a spirit of sustainability, the two organizations will work together to plant 3,500 trees in several strategic locations on Tuesday, November 14.





CLIMATE ACTION

Saving Our World, One Step at a Time

SDG 13

This tree-planting program will involve 3,500 new UNNES students and the Bakti Lingkungan team from Djarum Foundation. The planting will take place in the Nyai Ketrik area and around Mount Ledek in Sukorejo Village, Gunungpati District, Semarang City.

The 3,500 students participating represent nine faculties: 408 from the Faculty of Education and Psychology, 494 from the Faculty of Languages and Arts, 359 from the Faculty of Social and Political Sciences, 448 from the Faculty of Mathematics and Natural Sciences, 498 from the Faculty of Engineering, 227 from the Faculty of Sports Sciences, 576 from the Faculty of Economics and Business, 284 from the Faculty of Law, and 206 from the Faculty of Medicine.

The tree species to be planted include Aligator, Kendil, and Miki avocados, spaced at 6x6 meters; Gadung, Manalagi, and Kiojay mangoes, as well as Rapijah rambutans, spaced at 7x7 meters; petai trees at 6x6 meters; and Bawor, Musangking, and Montong durians at 8x8 meters.

Beyond tree planting, this program will include environmental education activities for students. UNNES students will participate in training sessions and workshops focused on the importance of environmental sustainability.

The tree-planting event is scheduled to commence on November 25-26, 2023, with a series of opening ceremonies. UNNES and the Djarum Foundation hope this program will inspire other institutions to actively engage in environmental preservation efforts.

This collaboration is expected to make a positive contribution to air quality improvement, biodiversity conservation, and long-term environmental benefits for the surrounding area.



SDG 14 

LIFE BELOW WATER

Protecting Our Oceans

30

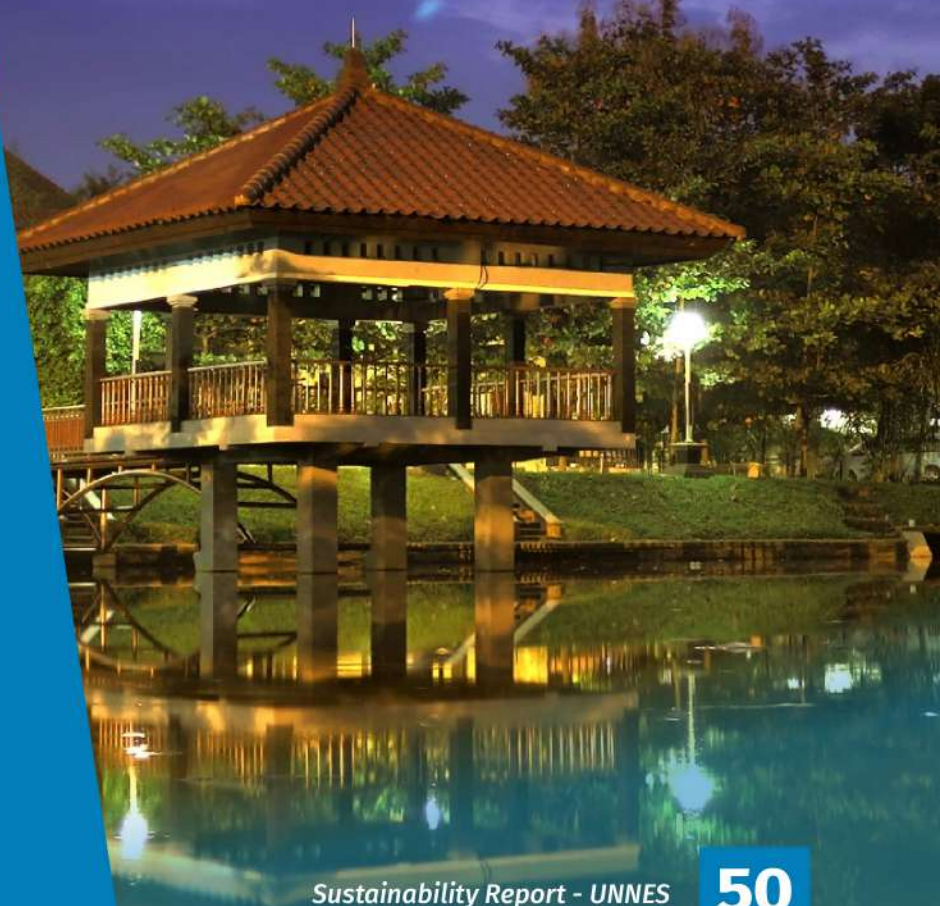
NUMBER OF
PUBLICATION

0.73

CITATION IMPACT

126

NUMBER OF CITATIONS





LIFE BELOW WATER

Protecting Our Oceans

SDG 14

1 | Supporting aquatic ecosystems through education

Universitas Negeri Semarang (UNNES) focuses on education and environmental conservation through the Embung FBS UNNES. Embung is a water conservation structure in a pond that collects rainwater, runoff, or seepage. The embung water can be used during the dry season or water shortages. Located in the Faculty of Language and Arts (FBS) area, this embung is a rainwater reservoir, flood prevention, and groundwater reserve.

Built-in 2010, the 900 m² Embung FBS also serves as an educational site, providing a unique learning environment for students and the community. It's a relaxing place frequently used by students and the surrounding community. In the middle of the embung, there is a comfortable gazebo for discussions or meetings, and the long benches around the embung are a favorite spot for visitors to rest.

In addition to environmental benefits, UNNES conducts community sustainable water management education programs. By maintaining regular cleanliness, this reservoir continues to function optimally in supporting ecosystem balance, providing recreational benefits, and educating about sustainable environmental management.



2 | UNNES Empowers Fishermen with Sustainable Fishing Practices



On September 23, 2023, the PPK Ormawa UKM RIPTeK team from Universitas Negeri Semarang (UNNES) held an educational outreach program at the Mangkang Wetan Village Hall, Semarang. The event, titled Edukasi dan Pelatihan Penangkapan Ikan Terukur Berbasis Kuota (Education and Training on Quota-Based Sustainable Fishing), aimed to raise awareness among local fishermen about the importance of sustainable fishing practices.

This initiative, focused on quota-based fishing and designated fishing zones, was designed to help preserve aquatic ecosystems and maintain fish stocks for future generations. Local fishermen and community members attended the session, which the Head of Mangkang Wetan Village, Beni Irawan, supported. Sujiyanto S.St.PI., M.Si. from the Department of Marine Affairs and Fisheries of Central Java also provided in-depth training on regulated fishing practices. Through this program, UNNES actively promotes environmental sustainability and empowers local communities to adopt responsible fishing methods.



LIFE BELOW WATER

Protecting Our Oceans

SDG 14

3 | BEM FMIPA UNNES Holds Mangrove Planting for Coastal Conservation

Semarang, October 28, 2023 – In a celebration of unity and environmental stewardship, the Executive Student Board (BEM) of Universitas Negeri Semarang (UNNES) hosted a meaningful event at Pantai Tirang, Tugu, Semarang City. The event, held in honor of Youth Pledge Day, combined friendship with a strong commitment to conserving and maintaining the local coastal ecosystem.

As the evening unfolded under the moonlight, students from FMIPA UNNES gathered on the beach to enjoy a series of activities, including games, a bonfire, and moments of camaraderie. However, the true essence of the event was reflected in their collective effort to protect the local environment and contribute to climate change solutions in coastal areas.

The highlight of the event, held on October 29, 2023, was a mangrove planting action aimed at restoring and preserving the coastal ecosystem. Mangroves, known for their crucial role in preventing erosion, protecting biodiversity, and maintaining healthy coastal ecosystems, were the focus of the planting activity. Over 500 mangrove seedlings were planted at Pantai Tirang with the support of environmental organizations such as BSPTH, BPDAS, and the Semarang Mangrove Community.

Environmental experts led the mangrove planting session, teaching participants the proper techniques for planting and maintaining mangroves. This hands-on effort emphasized the importance of preserving coastal ecosystems and the vital role of Indonesian youth in ensuring the health of these areas. Following the planting, participants also carried out a beach cleanup, raising awareness about the significance of coastal conservation and the environmental benefits of mangrove forests.

The event underscored UNNES's commitment to maintaining local ecosystems through education and action. By bringing students together for environmental conservation efforts, BEM FMIPA UNNES is helping to cultivate a sense of responsibility for nature among young people and inspire future actions that will protect Indonesia's coastal environments for generations to come.

BEM FMIPA UNNES extends its appreciation to all participants and



SDG 15

LIFE ON LAND

Preserving Life on Land

42

NUMBER OF PUBLICATION

0.75

CITATION IMPACT

119

NUMBER OF CITATIONS





1 | Sustainable Water Use

As a university that embraces conservation values, UNNES protects the environment by managing water waste. UNNES made a policy in the UNNES rector's regulation number 21 of 2022 concerning guidelines for managing UNNES campus water conservation. This regulation regulates the wastewater flow in each work unit at UNNES. This wastewater must first flow through the Wastewater Processing Installation (IPAL). After going through the recycling process, the new water is poured into the campus drainage network.

This rule also regulates water conservation. Water conservation follows the principles of water availability for the sustainability of green open spaces, drainage arrangements, rainwater harvesting, and wastewater processing installation (IPAL). Water resources from several sources are used for campus needs and maintenance of outdoor parks to secure the sustainability of green open spaces. The water used is applied to a metering system to determine the level of use and efficiency.

2 | Sustainable Campus Farming Practice

Hydroponics is a creative method of cultivating plants to produce higher-quality vegetables and cleaner roots. Water spinach was chosen by the Integrated Conservation Development Service Unit of UNNES for hydroponic cultivation.

The Head of the Integrated Conservation Development Service Unit of UNNES, Dr. Amin Retnoningsih, explained that water spinach was selected because it is a versatile vegetable, easy to cultivate, popular with the community, and offers better economic potential compared to traditional water spinach.

“This water spinach is from the Bangkok variety. It was planted on February 1st and harvested on February 25th, reaching a height of around 25-30 cm. The first harvest produced approximately 1,000 net pots,” she explained.

The innovation in hydroponic cultivation has received appreciation from the UNNES leadership, with plans for further environmental projects, including the planting of 354 durian trees on campus grounds.



SDG 16 PEACE, JUSTICE AND STRONG INSTITUTIONS

Strong Institutions,
Lasting Peace

87

PUBLICATION

1.24

IMPACT CITATION

502

NUMBER OF CITATIONS





PEACE, JUSTICE AND STRONG INSTITUTIONS

Strong Institutions, Lasting Peace

SDG 16

1 | FKPMU Strengthens Synergy between Campus and Community

The Forum for Police and Community Partnership with Students (FKPMU) plays a crucial role in enhancing the relationship between Universitas Negeri Semarang (UNNES) and the surrounding community. Therefore, synergy between UNNES and various external stakeholders, such as the Regional Police (Polda), Polres, Polsek, sub-district heads (Camat), village heads (Lurah), religious leaders, as well as RW and RT leaders, is essential.

This statement was made by Anang Budi Utomo, MPd, Head of FKPMU in the UNNES area, during the workshop titled "Action Plan to Optimize the Role of FKPMU through Synergy of All UNNES Entities" held on Wednesday, November 7, at the Rectorate of Sekaran Campus. The event was opened by the Vice Rector for Student Affairs, Prof. Masrukhi, and attended by hundreds of participants, including faculty members, Unnes leadership, students, as well as representatives from Polrestabes Semarang, Polsek Gunungpati, and community leaders.

Anang highlighted that the importance of FKPMU in the UNNES area is largely due to the population density in the surrounding regions, such as Sekaran, Patemon, Sumurjurang, and Kalisegoro (Sepasuka), which are home to around 15,000 people. UNNES itself has a student population of 25,605 and 1,800 faculty and staff members. The largest student population resides in Sekaran, with approximately 18,000 students, while the native population is only around 6,000.

In this regard, Anang emphasized that the work programs of FKPMU must be better disseminated and socialized to the relevant communities and institutions around UNNES, including faculties, departments, RT, RW, and local government offices. This synergy is crucial to addressing emerging issues, such as motor vehicle theft, petty thefts, and other social concerns, such as the late-night visiting hours of students in dormitories that lack proper supervision.

Meanwhile, I Nengah Wirta Darmayana, MH, Head of the Community Development Division at Polrestabes Semarang, discussed the concept of Restorative Justice, which emphasizes resolving conflicts through dialogue between the offender, victim, and the community. This approach is expected to offer more satisfactory solutions for all parties involved, as seen in cases like traffic accidents or sexual assault, where meetings between the families of the offender and the victim can occur to reach an agreement, such as restoring the reputation of the parties or providing compensation.

The existence of FKPMU as a bridge between UNNES and the community, along with the strengthening of synergy with various external stakeholders, is expected to foster a safer and more harmonious environment for the Unnes community and the surrounding population.

2 | Police Academy Boosts Lecturers' Skills with LPPP UNNES



To enhance the competence and professionalism of faculty members in their functional positions, the Indonesian Police Academy has established a close collaboration with the Institute for Education and Professional Development at Universitas Negeri Semarang (LPPP UNNES). This collaboration is realized through two main programs: the Basic Instructional Technique Skills Enhancement Program (Pekerti) and the Applied Approach (AA).

The Pekerti program, mandated by the Directorate General of Higher Education (Ditjen Dikti), is designed to train young faculty members. This year, the Pekerti training was successfully conducted on February 27, 2023. The program aims to improve the pedagogical skills of faculty members in the teaching process.

Meanwhile, the Applied Approach (AA) program is specifically aimed at senior faculty members. The AA program focuses on practical approaches in the teaching process. The implementation of the AA program for this year will take place from September 18, 2023, to September 21, 2023.

What is interesting about this collaboration is the active participation of police officers ranging from the Commissioner of Police to the Deputy Commissioner of Police, who also serve as educators at the Indonesian Police Academy. This demonstrates a joint commitment to improving the quality of education in policing.

The collaboration between LPPP UNNES and the Indonesian Police Academy is expected to positively impact the quality of education and training in the academic and police environments. It is also essential in supporting faculty members' competence in their functional roles.



SDG 17

PARTNERSHIP FOR THE GOALS

United for a Sustainable
Future





1 | International Conference on Conservation and Sustainability

The Faculty of Law, Universitas Negeri Semarang (UNNES), conducted the 1st ICCONSIST 2023 activity. This is an International Conference activity with the theme “Disruptive Technologies and the Law: Reimagining the Use of Technologies to Achieve Conservation and Sustainability in the Future. Lecturers, undergraduate and doctoral students, and several guests and presenters from UNNES and universities in Indonesia attended this international conference.



This 1st ICCONSIST will be held on September 20, 2023, at the Prof. Auditorium. Wuryanto UNNES, Semarang. This activity was initiated by the Keynote Speaker, Prof. Jimly Asshiddiqie, a Professor at the University of Indonesia, and several speakers from within and outside the country. The first speaker was Saru Arifin, S.H., LL.M., Ph.D (Cand) from UNNES. The second speaker was Professor Thomas Fezer from the University of Debrecen, Hungary, and the third speaker was Dr. Maria Tzanou of the University of Sheffield, United Kingdom (U.K.).

The speakers raised various topics related to their expertise. This National Conference began with a speech from the Dean of the Faculty of Law UNNES, Dr. Ali Masyhar Mursid, S.H., M.H., then opened symbolically by the Chancellor of UNNES, who on this occasion was represented by the Deputy Chancellor for Academic and Student Affairs. We hope that the activities of this International Conference can positively impact students/participants and society at large.

2 | Education for the SDGs

In an effort to contribute to the global movement toward achieving the Sustainable Development Goals (SDGs), Universitas Negeri Semarang (UNNES) has woven sustainability into its academic programs, community outreach, and student development. Through a combination of mandatory courses, community service activities, and a focus on sustainability literacy, UNNES is ensuring that its students are not only academically equipped but also socially responsible and environmentally conscious.

Mandatory Conservation Education for All Students

At UNNES, every student is required to take the Conservation Education course during their studies. This course, which carries a weight of 2 credits, is offered in both odd and even semesters, and serves as a foundational element of the university’s approach to sustainability. It provides students with the necessary knowledge and tools to understand the importance of conservation, environmental protection, and sustainable practices in everyday life.



PARTNERSHIP FOR THE GOALS

United for a Sustainable Future

By making this course a university requirement, UNNES ensures that all of its students, regardless of their major, are exposed to key environmental issues and are encouraged to think critically about their role in preserving the planet. The course covers topics such as waste management, renewable resources, and biodiversity conservation, all of which are directly aligned with the SDGs, particularly Goal 13 (Climate Action), Goal 14 (Life Below Water), and Goal 15 (Life on Land).



Community Service Activities for SDGs

In addition to its academic efforts, UNNES places great emphasis on real-world application of sustainability principles. Each year, the university organizes a wide array of community service activities that bring together lecturers, students, and local communities. These initiatives focus on practical solutions to pressing issues like waste management, education, and environmental conservation.

In 2023, for example, UNNES facilitated 26 community service activities that directly contributed to achieving the SDGs. These programs included waste utilization projects, environmental education outreach, and collaborative efforts to promote sustainability in local communities. By involving students and faculty in these initiatives, UNNES fosters a sense of social responsibility and encourages students to engage actively with their surroundings, creating positive change within both the campus and the broader community.

Measuring Sustainability Literacy

Sustainability literacy is a key part of UNNES' educational framework. To ensure that students are not only learning but also internalizing the concepts of sustainability, the university measures their understanding through assessments. Students' sustainability knowledge is evaluated in the first or second semester as part of the Conservation Education course. The course includes a computer-based final exam, which features numerous questions related to sustainability. These assessments help determine the students' grasp of critical concepts such as environmental conservation, climate change, and sustainable development practices.

This focus on sustainability literacy aligns with global efforts to promote SDG 4 (Quality Education) and ensures that students are equipped with the knowledge they need to contribute to sustainable development, both locally and globally.

Conclusion

Through its innovative programs and initiatives, UNNES is playing an active role in fostering a generation of students who are not only academically prepared but also deeply committed to achieving the SDGs. The mandatory Conservation Education course, coupled with hands-on community service and a focus on sustainability literacy, provides a comprehensive approach to sustainability education. As UNNES continues to integrate these principles into its academic and community activities, it remains dedicated to shaping future leaders who will drive positive environmental and social change worldwide.



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