UNIVERSITAS MUHAMMADIYAH SEMARANG
UNIMUS
A University for the Excellence

UI GreenMetric
Sustainable University Rankings

Sustainability Report

Universitas Muhammadiyah Semarang

2025/2026



- **Green Campus** for a Sustainable Future
- **Innovating Today** for a Better Tomorrow
- **Empowering People** Transforming Communities
- **Collaborating Globally** Creating Lasting Impact

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Kata Pengantar

Puji syukur kehadirat Allah SWT atas limpahan rahmat, taufik, hidayah, serta inayah-Nya, sehingga Sustainability Report Universitas Muhammadiyah Semarang (UNIMUS) Tahun Pelaporan 2026 dapat disusun dan disajikan dengan baik. Laporan ini merupakan bentuk akuntabilitas sekaligus komitmen UNIMUS dalam mengimplementasikan prinsip-prinsip pembangunan berkelanjutan melalui tata kelola perguruan tinggi yang inovatif, bertanggung jawab, serta berorientasi pada kemajuan masyarakat dan kelestarian lingkungan.

Sebagai institusi pendidikan tinggi yang terus berkembang menuju universitas bereputasi internasional, UNIMUS senantiasa mengintegrasikan nilai-nilai keberlanjutan ke dalam seluruh aspek penyelenggaraan tridarma perguruan tinggi, tata kelola kelembagaan, serta pengembangan fasilitas kampus. Berbagai program dan kebijakan yang dilaksanakan mencerminkan upaya nyata universitas dalam menciptakan lingkungan akademik yang sehat, hijau, inklusif, adaptif terhadap perubahan iklim, serta mendukung kesejahteraan seluruh sivitas akademika.

Laporan ini memuat informasi mengenai capaian kinerja keberlanjutan UNIMUS sepanjang tahun 2026 yang meliputi aspek **Setting and Infrastructure, Energy and Climate Change, Waste, Water, Transportation, dan Education**. Berbagai inovasi yang telah dilakukan, mulai dari pengembangan ruang terbuka hijau, efisiensi energi dan pemanfaatan energi ramah lingkungan, konservasi air, pengelolaan limbah secara berkelanjutan, transportasi berwawasan lingkungan, hingga penguatan pendidikan dan penelitian yang mendukung pembangunan berkelanjutan, menjadi bagian penting dalam laporan ini.

Penyusunan Sustainability Report ini juga merupakan wujud kontribusi UNIMUS dalam mendukung pencapaian Sustainable Development Goals (SDGs) sekaligus memenuhi indikator UI GreenMetric World University Rankings sebagai salah satu instrumen internasional dalam mengukur komitmen perguruan tinggi terhadap keberlanjutan lingkungan. Laporan ini diharapkan tidak hanya menjadi dokumentasi atas berbagai capaian yang telah diraih, tetapi juga menjadi landasan evaluasi, pengambilan keputusan strategis, serta inspirasi bagi peningkatan program keberlanjutan pada tahun-tahun berikutnya.

Kami menyampaikan apresiasi dan terima kasih kepada seluruh pimpinan universitas, fakultas, program studi, lembaga, unit kerja, dosen, tenaga kependidikan, mahasiswa, alumni, serta seluruh mitra yang telah berpartisipasi dan memberikan kontribusi nyata dalam mendukung implementasi berbagai program keberlanjutan di lingkungan Universitas Muhammadiyah Semarang.

Semoga laporan ini dapat memberikan manfaat sebagai media informasi, transparansi, dan inspirasi bagi seluruh pemangku kepentingan dalam mewujudkan kampus yang unggul, berkelanjutan, dan memberikan kontribusi positif bagi masyarakat, bangsa, serta lingkungan global.

Semarang, Juni 2026
Ketua Pelaksana

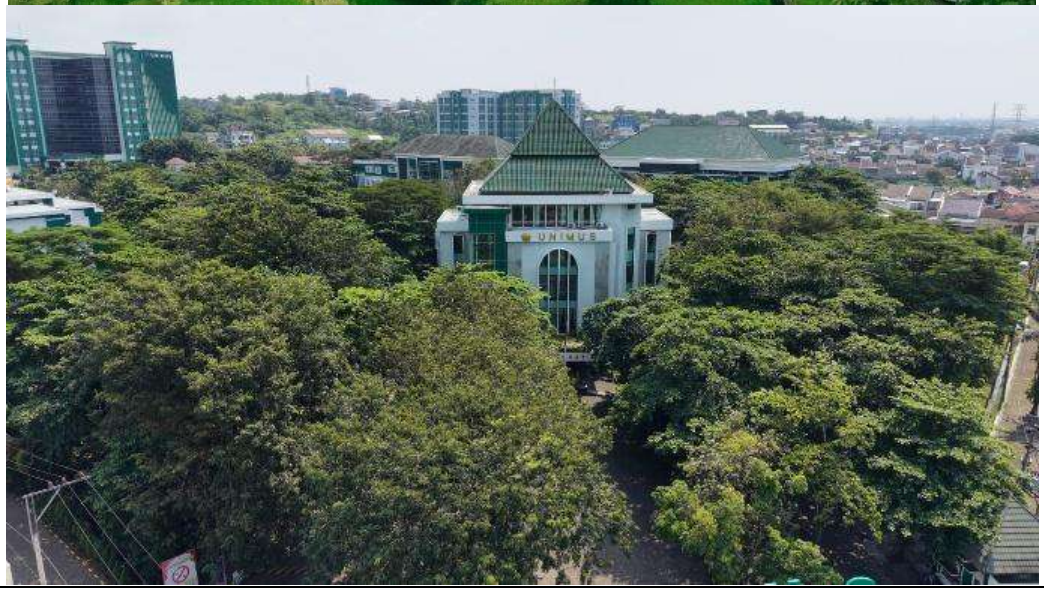
Prof. Dr. Edy Winarno, S.T., M.Eng
NIK. 28.6.1026.592

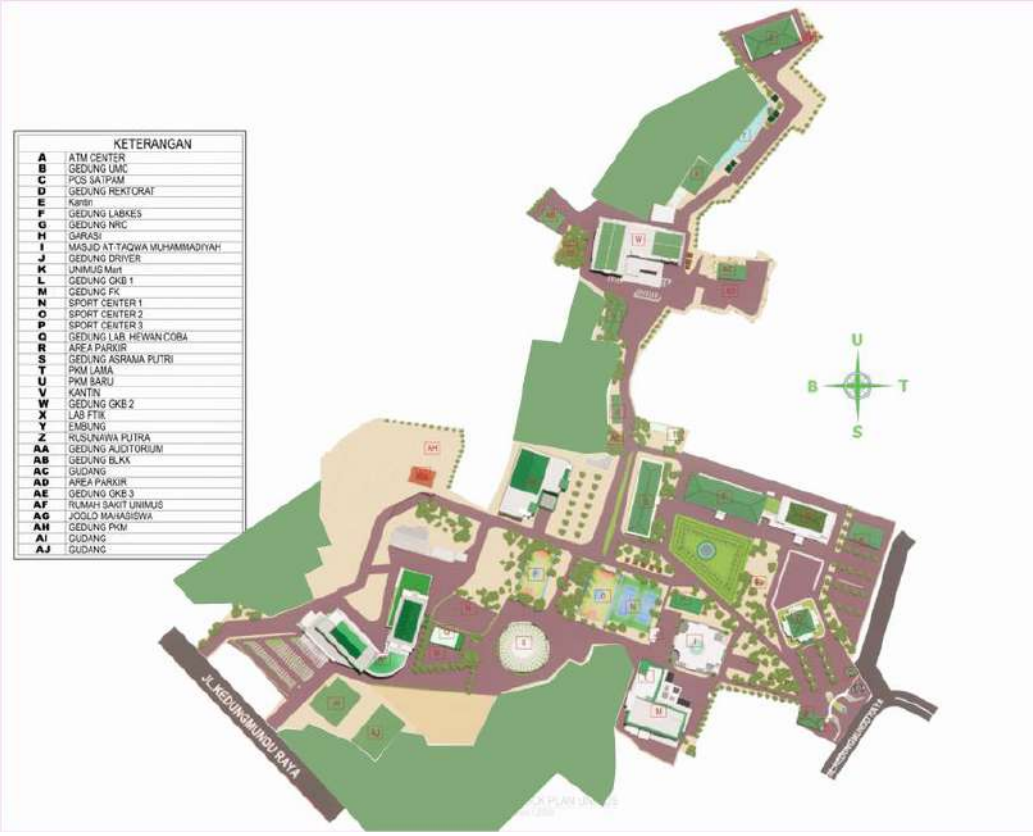
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.3] Number of Campus Sites

 	Campus Site, **Universitas Muhammadiyah Semarang**



Campus Site Universitas Muhammadiyah Semarang

Description:

Universitas Muhammadiyah Semarang (UNIMUS) reports one integrated campus site located at Jl. Kedungmundu Raya No. 18, Semarang, Central Java, Indonesia. The campus site covers approximately 212,834 m² and functions as the main academic, administrative, research, community service, student activity, and health-service environment of the university.

UNIMUS was formally established on 4 August 1999 after a development process initiated by Muhammadiyah leaders in Central Java. Since then, the Kedungmundu Campus has grown into a compact urban campus that brings together learning facilities, laboratories, student support services, religious facilities, dormitories, commercial support units, and university health services within one managed site boundary.

The campus layout is designed to support efficient academic operations and shared facilities. High-rise joint lecture buildings allow academic activities to be concentrated vertically, while surrounding green areas, shaded pedestrian corridors, mosque open space, dormitory areas, and public service zones contribute to a more comfortable and environmentally oriented campus setting. This integrated model helps reduce unnecessary land expansion, supports walkability between facilities, and improves the efficiency of utilities and campus maintenance.

Campus Site Summary 2026

Component	2026 Evidence Information
Campus site reported	1 integrated campus site: Kedungmundu Main Campus, Semarang
Site address	Jl. Kedungmundu Raya No. 18, Semarang, Central Java, Indonesia
Total site area	212,834 m²
Establishment background	Officially established in 1999 and developed from Muhammadiyah higher education initiatives in Semarang and Central Java
Main functions	Academic learning, laboratories, research, community service, student activities, dormitories, worship facilities, health services, and university administration
Facility approach	Integrated and compact campus development with shared buildings, vertical lecture facilities, pedestrian-oriented circulation, green/open areas, and centralized institutional management

Main Building and Facility Inventory

The Kedungmundu Campus comprises fifteen main facility groups that support the university's education, research, community service, student welfare, and health service missions. The inventory below strengthens the evidence by showing the function of each building and its relevance to campus operations and sustainability-oriented management.

No.	Building / Facility	Scale / Area	Main Function	Contribution to Integrated & Sustainable Campus Management
1	**Rectorate Building**	±2,789 m²; 4 floors	Central governance, rector and vice-rector offices, academic/finance/general bureaus, quality assurance, research and community service administration, senate and institutional meeting rooms.	Centralized administration improves coordination, avoids duplicated office functions, and supports integrated campus management.
2	**At-Taqwa Mosque**	±3,500 m²; main hall, upper floor, mezzanine	Worship facility, religious activities, meeting hall, separate ablution areas, mosque management room, toilets, and supporting rooms.	Open surroundings and pedestrian access support social interaction, shaded gathering, and daily low-emission movement within campus.
3	**UNIMUS Medical Center**	±358 m²; 2 floors	Primary health service, registration, waiting area, examination rooms, minor treatment, pharmacy, observation, and student clinical practice support.	Provides on-campus health access, reducing off-campus travel for basic health services and supporting community care.
4	**Health Laboratory Building**	±2,615 m²; 4 floors	Microbiology, clinical biochemistry, pathology, sample preparation, cold storage,	Supports laboratory-based education and research with

No.	Building / Facility	Scale / Area	Main Function	Contribution to Integrated & Sustainable Campus Management
			sterilization, lecturer research, and biosafety facilities.	controlled spaces and safety procedures.
5	**Nursing Research Center**	±3,630 m²	Research, collaboration, consultation, lecture rooms, small laboratories, research offices, meetings, workshops, and innovation incubation.	Strengthens applied research and community-service innovation within the main campus.
6	**Joint Lecture Building 1**	±12,282 m²; 7 floors	Main lecture center for the Faculty of Medicine with auditorium, classrooms, tutorial rooms, seminar rooms, lobby, student services, and lecturer administration.	Vertical academic building optimizes land use and concentrates learning facilities efficiently.
7	**Joint Lecture Building 2**	±16,000 m²; 8 floors	Lecture rooms, practicum facilities, laboratories, studios, seminar rooms, lecturer rooms, administration, and technical service spaces for FT, FSTP, FIPH, and FIKOMDIGI.	Shared multi-faculty facility improves space utilization and reduces duplicated infrastructure.
8	**Joint Lecture Building 3**	±16,534.4 m²; 9 floors including basement	Lecture rooms, special studios/practicum rooms, seminar rooms, tutorial rooms, and meeting rooms for FEB, FKG, and FKM.	Dense and integrated vertical development supports compact campus growth and efficient circulation.
9	**Multipurpose Building**	±1,673 m²	Academic ceremonies, seminars, workshops, exhibitions, bazaars, art performances, student activities, lobby, dressing room, equipment storage, and sanitation facilities.	Flexible shared space reduces the need for separate single-purpose halls and supports inclusive campus activities.
10	**Experimental Animal Laboratory**	Laboratory complex facility	Research and education facility with animal model rooms, quarantine/isolation, procedure rooms, sterilization, storage, researcher workspace, and documentation area.	Operated under research ethics, biosafety, and animal-welfare supervision to maintain responsible research practice.
11	**Men's Dormitory**	±1,800 m²	Residential rooms, shared study/social areas, sanitation, basic support services, resident administration, cleanliness, and security.	Supports safe housing, men's student accessibility, and reduced transportation demand.
12	**Women's Dormitory**	±4,500 m²	Female student residence with bedrooms, common rooms/study rooms, pantry, sanitation, service areas, security, and open/social spaces.	Supports safe housing, women's student accessibility, and reduced transportation demand.

No.	Building / Facility	Scale / Area	Main Function	Contribution to Integrated & Sustainable Campus Management
13	**UNIMUS Mart**	±344 m²; 2 floors	Retail support unit for daily needs, stationery, food and beverages, payment/package services, and academic-community convenience.	On-campus retail service reduces short trips outside campus and supports daily activity efficiency.
14	**Community Work Training Center (BLKK)**	±195.42 m²	Skills training center with practice room, workshop, theory room, and supporting vocational training facilities for students and the community.	Strengthens community empowerment and practical competency development in the campus ecosystem.
15	**UNIMUS Hospital**	±29,935 m²	Teaching hospital and public health service facility with emergency unit, inpatient rooms, operating rooms, maternity rooms, specialist clinics, laboratories, radiology, pharmacy, and clinical learning spaces.	Integrates health services, clinical education, and community benefit within the university environment.

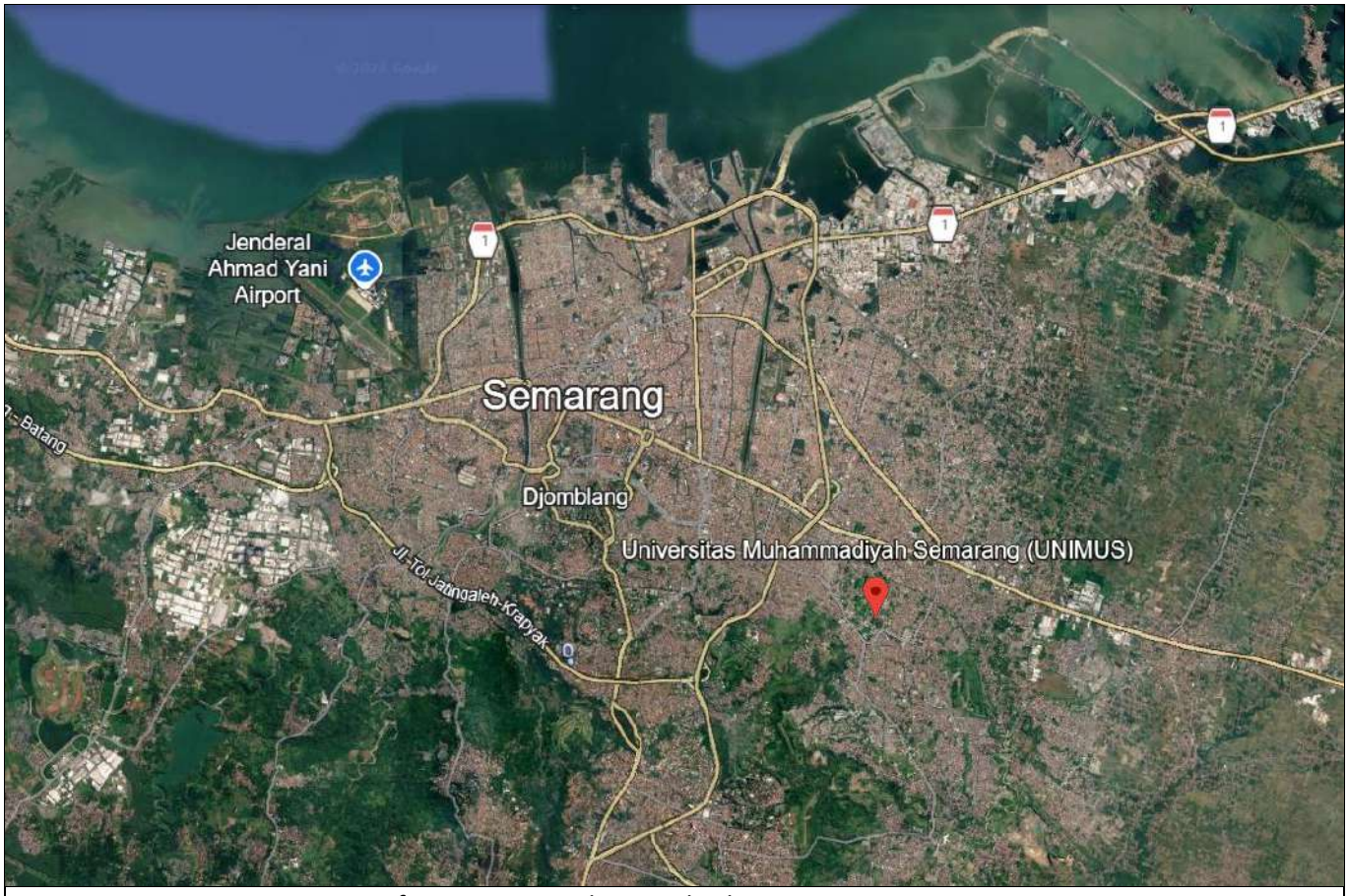
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu

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[1] Setting and Infrastructure (SI)

[1.4] Campus Setting



Position of Universitas Muhammadiyah Semarang in Semarang City





The front area of the Universitas Muhammadiyah Semarang





Areas Around University of Muhammadiyah Semarang



Area Belakang Universitas Muhammadiyah Semarang



In Urban Area (Universitas Muhammadiyah Semarang, Indonesia)

Description:

Universitas Muhammadiyah Semarang (UNIMUS) classifies its main campus setting as an urban campus located within the urban area of Semarang, Central Java, Indonesia. The main campus is situated on Jl. Kedungmundu Raya No. 18, in the eastern part of Semarang, an area that has developed into a mixed educational, residential, health-service, and urban community zone. This setting places UNIMUS within a compact urban environment while still allowing the campus to maintain green open spaces, pedestrian circulation, and integrated academic facilities inside one main campus boundary.

The campus location is directly connected to Semarang's urban road network and public service environment, making it accessible for students, lecturers, staff, patients, visitors, and surrounding communities. Although UNIMUS is positioned in an urban setting, the Kedungmundu area has a gently elevated topographic character, approximately 90-120 meters above sea level, which supports a relatively comfortable microclimate compared with the lower coastal parts of Semarang. This condition strengthens the campus's potential for sustainable landscape management, shaded outdoor spaces, natural air circulation, and environmentally responsive building orientation. The City of Semarang covers approximately 373.78 km² and consists of 16 districts and 177 urban villages. Recent municipal statistics also indicate that Semarang is a densely populated metropolitan city, with an average population density of around 4,608 inhabitants per km². Within this urban context, UNIMUS applies a compact campus development approach by concentrating academic, administrative, research, worship, student residential, health service, and supporting facilities in one integrated main campus area. The use of multi-storey buildings and shared facilities helps optimize land use, reduce unnecessary land expansion, and support efficient mobility between campus functions.

As an urban campus, UNIMUS has a strategic role in linking higher education with public services and community needs. The presence of lecture buildings, laboratories, student facilities, At-Taqwa Mosque, Unimus Medical Center, and the UNIMUS Teaching Hospital within the same campus environment creates a multifunctional academic ecosystem. This arrangement supports education, research, clinical learning, community service, and social activities while encouraging more efficient resource use across campus facilities.

Campus UNIMUS demonstrates a land efficient setting through compact building placement, functional zoning, shared infrastructure, pedestrian oriented internal movement, and the integration of green landscape elements.

These aspects are important because they show that the campus setting is aligned with sustainable urban campus planning, accessibility, and responsible land management.

Campus Setting Summary

Aspect	Information
Campus setting category	In Urban Area
Main campus location	Jalan Kedungmundu Raya No. 18, Semarang, Central Java, Indonesia
Urban context	Semarang City: approximately 373.78 km²; dense metropolitan population context
Site development approach	Compact and integrated main campus with multi storey buildings and shared facilities
Sustainability emphasis	Green landscape elements, pedestrian circulation, functional zoning, and an integrated academic-health service ecosystem

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
History of UNIMUS: https://unimus.ac.id/sejarah-unimus/
Badan Pusat Statistik Kota Semarang Website: https://semarangkota.bps.go.id/
Semarang dalam Angka 2025: https://ppid.semarangkota.go.id/kota-semarang-dalam-angka/

Template for Evidence(s)
UI GreenMetric Questionnaire

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Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.5] Total Campus Area (meter^2)



Campus Boundary/Siteplan of Universitas Muhammadiyah Semarang, Indonesia

Description:

The main campus of Universitas Muhammadiyah Semarang (UNIMUS) is located within one integrated campus boundary in the Kedungmundu area of Semarang, Central Java, Indonesia.

No.	Campus Area Component	2026 Value	Information
1	Total main campus area	212,834 m²	Equivalent to 0.212834 km² or 21.2834 hectares within the main UNIMUS campus boundary.

No.	Campus Area Component	2026 Value	Information
2	Number of buildings included in the main campus inventory	15 buildings	Recorded as the primary physical facilities located within the integrated main campus site.
3	Total building area on all floors	105,442 m²	Represents the accumulated floor area of campus buildings used for academic, administrative, research, health service, worship, residential, and supporting functions.
4	Total building base area/building footprint	21,177 m²	Represents the ground-level building coverage within the campus boundary, approximately 9.95% of the total campus area.
5	Open and covered surface area with grass, trees, circulation, blocks, and a parking area	191,656 m²	Represents approximately 90.05% of the main campus area outside the building footprint, including vegetated areas, pedestrian/circulation spaces, paved blocks, and parking-support zones.
6	Total distance/circumference of campus boundary	3.05 km = 3,057 m	Measured around the main campus perimeter based on the campus boundary/siteplan.

Land use verification summary:

- Total campus area: 212,834 m² = 0.212834 km² = 21.2834 hectares.
- Building footprint ratio: 21,177 m² / 212,834 m² = approximately 9.95%.
- Open/covered non-building area ratio: 191,656 m² / 212,834 m² = approximately 90.05%.
- Site perimeter/circumference: approximately 3,057 m around the integrated main campus boundary.

UNIMUS main campus is managed as a compact and integrated urban campus. The campus area accommodates academic buildings, laboratories, the rectorate and administration facilities, the At-Taqwa Mosque, student dormitories, health service facilities, supporting commercial services, training facilities, and the UNIMUS Teaching Hospital, while maintaining a significant proportion of non-building surface areas for circulation, green/open space, and supporting infrastructure. The data on land use are therefore not only stated as figures, but also interpreted as evidence of campus spatial management and sustainable infrastructure reporting.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

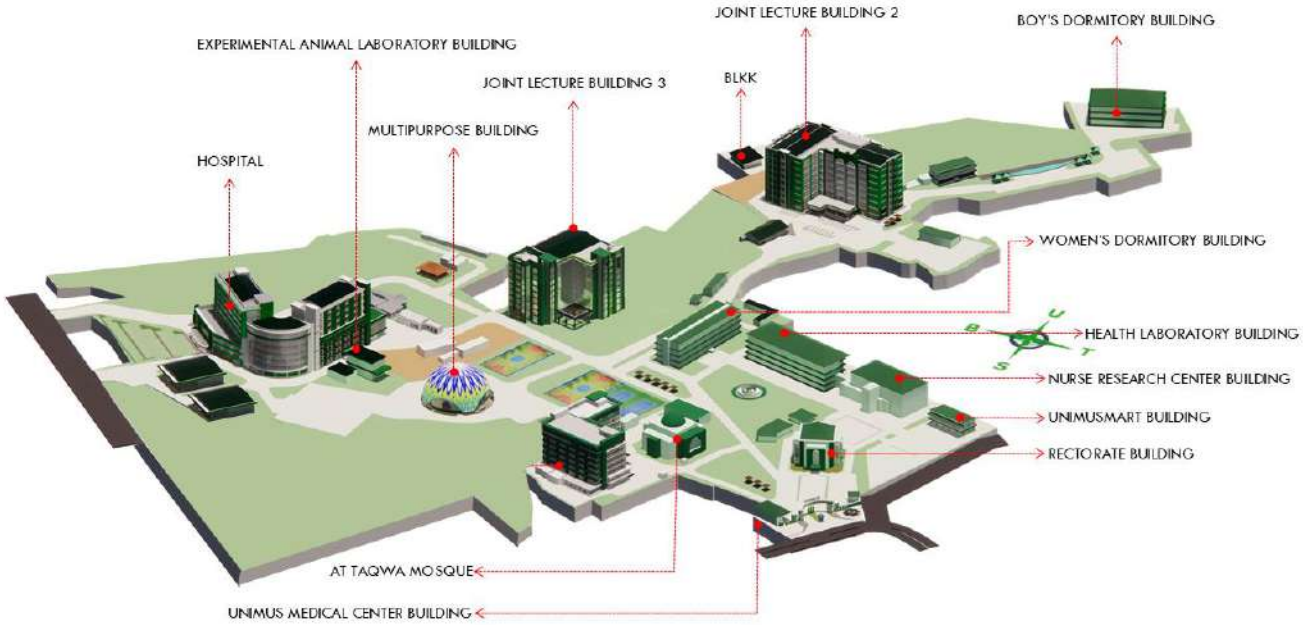
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[1] [Setting & Infrastructure]

[1.7] Total campus buildings area



Main Campus Layout and Building Distribution of Universitas Muhammadiyah Semarang

Rectorate Building	At Taqwa Mosque
	
Area: 2789.4 m^2	Area: 5000 m^2

Unimus Medical Center Building	Health Laboratory Building
	
Area: 358 m^2	Area: 5.418 m^2
Nurse Research Center Building	**Joint Lecture Building 1**
	
Area: 3.620 m^2	Area: 12.282 m^2
Joint Lecture Building 2	**Joint Lecture Building 3**
	
Area: 16.000 m^2	Area: 21.231 m^2

Multipurpose Building	Experimental Animal Laboratory Building
	
Area: 1.734 m^2	Area: 391 m^2
Man's Dormitory Building	**The Women's Dormitory Building**
	
Area: 1.800 m^2	Area: 4.500 m^2
Unimus Mart Building	**Community Work Training Center Building (BLKK)**
	
Area: 395,93 m^2	Area: 195 m^2

Hospital Building

Area: 29.935 m^2

Description:

The total campus building area of Universitas Muhammadiyah Semarang (UNIMUS) of 105,442 m² and a building footprint of 21,177 m², UNIMUS exhibits a compact campus development pattern that facilitates efficient land use, vertical space utilization, and the availability of non-building areas for circulation, landscaping, parking, and environmental management. This approach strengthens the documentation of campus infrastructure while also supporting sustainability-oriented campus planning.
The total campus buildings area of Universitas Muhammadiyah Semarang (UNIMUS) is documented as the consolidated gross floor area of all permanent buildings located within the main campus boundary in Kedungmundu, Semarang. The calculation covers academic buildings, administrative offices, laboratories, student support facilities, religious facilities, residential facilities, training facilities, commercial support units, and the UNIMUS Teaching Hospital.

Item	2026 Value	Unit	Information
Total main campus area	212,834	m²	Reference area for campus land-use calculation
Total campus buildings area	105,442	m²	Gross floor area of buildings used for academic and supporting activities
Total number of buildings	15	buildings	Permanent facilities located inside the main campus boundary
Building footprint/base area	21,177	m²	Indicates compact building placement and remaining open land potential
Gross building area to campus area ratio	49.54	%	Shows optimized vertical and shared-space development
Building footprint to campus area ratio	9.95	%	Supports land efficiency and preservation of non-building areas

Building Area Inventory

No.	Building Name	Main Function / Facility Coverage	Total Area	Unit
1	Unimus Medical Center Building	Primary health service, student clinical practice, and community health support.	358	m²
2	Rectorate Building	Central university governance, leadership offices, academic administration, finance, quality assurance, and institutional management.	2,789	m²

No.	Building Name	Main Function / Facility Coverage	Total Area	Unit
3	Health Laboratory Building	Laboratory-based learning, health science practicum, research, sample handling, and laboratory support facilities.	5,418	m²
4	Nurse Research Center Building	Applied research, collaborative workspaces, lecture support rooms, meeting facilities, and research incubation activities.	3,620	m²
5	At-Taqwa Mosque	Worship, Islamic learning, community gathering, and spiritual development facility within the campus.	4,793	m²
6	Joint Lecture Building 1	Lecture halls, classrooms, tutorial rooms, seminar facilities, and academic support areas.	12,282	m²
7	Multipurpose Building	Flexible facility for seminars, ceremonies, exhibitions, workshops, student activities, and university events.	1,734	m²
8	Experimental Animal Laboratory Building	Specialized laboratory facility for research and education requiring animal models, with controlled research support spaces.	391	m²
9	Women's Dormitory Building	Student residence facility with rooms, shared study areas, sanitation facilities, pantry/support areas, and security services.	4,500	m²
10	Joint Lecture Building 2	Integrated lecture, studio, laboratory, practicum, administration, and technical service spaces.	16,000	m²
11	Unimus Mart Building	Campus retail and daily-needs support service for students, lecturers, staff, and visitors.	396	m²
12	Community Work Training Center Building (BLKK)	Training, workshop, vocational practice, and community skill-development facility.	195	m²
13	Man's Dormitory Building	Male student residence with accommodation rooms, common areas, study support spaces, and basic services.	1,800	m²
14	Hospital Building	Teaching hospital and public health service facility with emergency, inpatient, outpatient, laboratory, pharmacy, radiology, operating, and clinical education units.	29,935	m²
15	Joint Lecture Building 3	Multi-floor academic building supporting lecture rooms, studios, laboratories, seminar rooms, tutorials, and faculty administration.	21,231	m²
Total Campus Buildings Area		**Consolidated gross floor area of 15 campus buildings**	**105,442**	**m²**

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

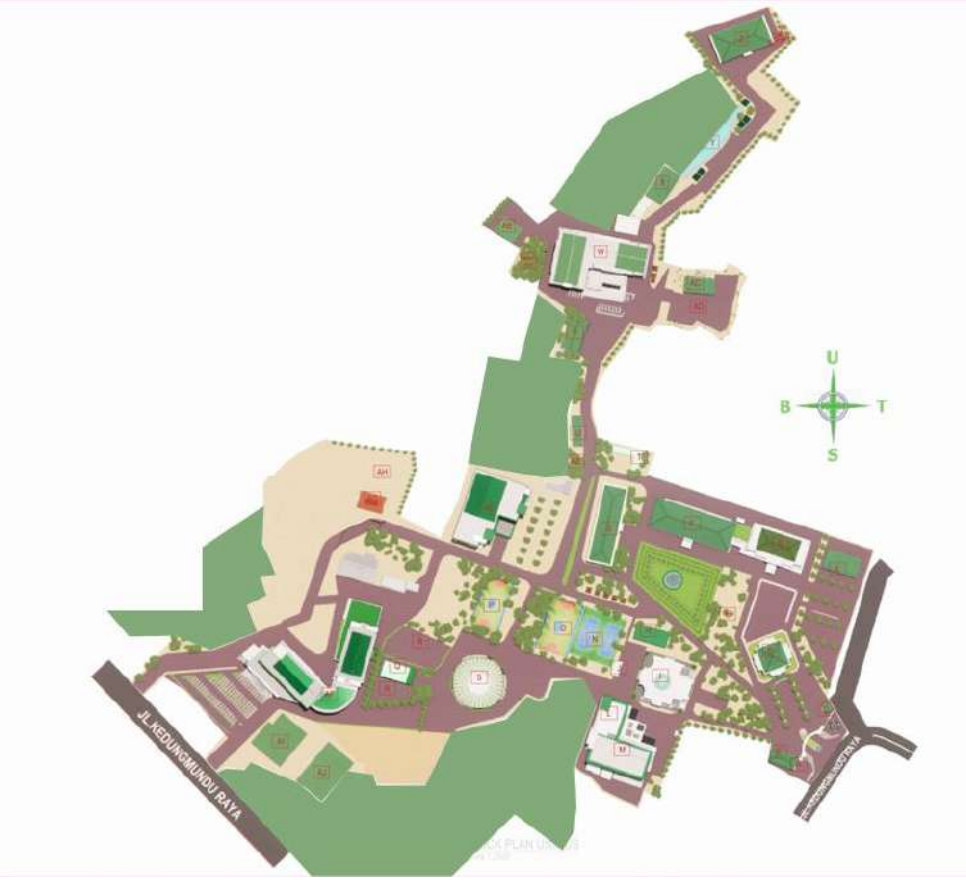
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[1] Setting & Infrastructure

[1.8] The ratio of open space area to total area (SI.1)



UNIMUS Main Campus Siteplan Showing the Distribution of Buildings and Open Areas

Description:

Universitas Muhammadiyah Semarang (UNIMUS) has a total land area of 212,834.00 m^2. The total building base area occupies 21,177.92 m^2, while the remaining 191,656.08 m^2 is classified as open area. Therefore, the ratio of open space area to total campus area is 90.05%.
Open space are includes landscaped areas, tree-covered areas, internal circulation, pedestrian routes, courtyards, plazas, parking areas, and other non-building surfaces within the campus boundary. These open areas support environmental comfort, safer campus mobility, outdoor social interaction, air circulation, and opportunities for further landscape improvement and water infiltration management.
This evidence is strengthened by presenting the calculation formula, consistent area data, and a visual siteplan. This helps ensure that the open space figure is transparent and measurable, particularly the total campus area and the total campus building footprint.

Ratio of open space towards total area: 90.05%

No	Indicator	Value	Unit
1	Total campus area	212,834.00	m2
2	Total building base area	21,177.92	m2
3	Total open area	191,656.08	m2
4	Open space area to total area ratio	90.05	%

Calculation formula

Open space ratio = (Total open area / Total campus area) x 100% = (191,656.08 / 212,834.00) x 100% = 90.05%

Open Space Area Classification

Open Space Component	Description	Area Status	Accessibility/Function
Landscaped and tree-covered areas	Green landscape elements, planted areas, and shaded outdoor zones distributed within the campus site.	Included in open area	Supports microclimate quality, visual comfort, and outdoor campus activity.
Pedestrian and internal circulation areas	Walkways, access routes, and internal movement corridors connecting academic, service, and public facilities.	Included in open area	Improves campus connectivity and encourages walkability within the site.
Courtyards, plazas, and social outdoor spaces	Outdoor spaces used for informal interaction, waiting areas, and student activities.	Included in open area	Provides shared spaces for social learning and campus community interaction.
Parking and other uncovered service areas	Uncovered areas used for parking and campus service circulation.	Included in open area	Supports campus accessibility while remaining outside building footprint.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

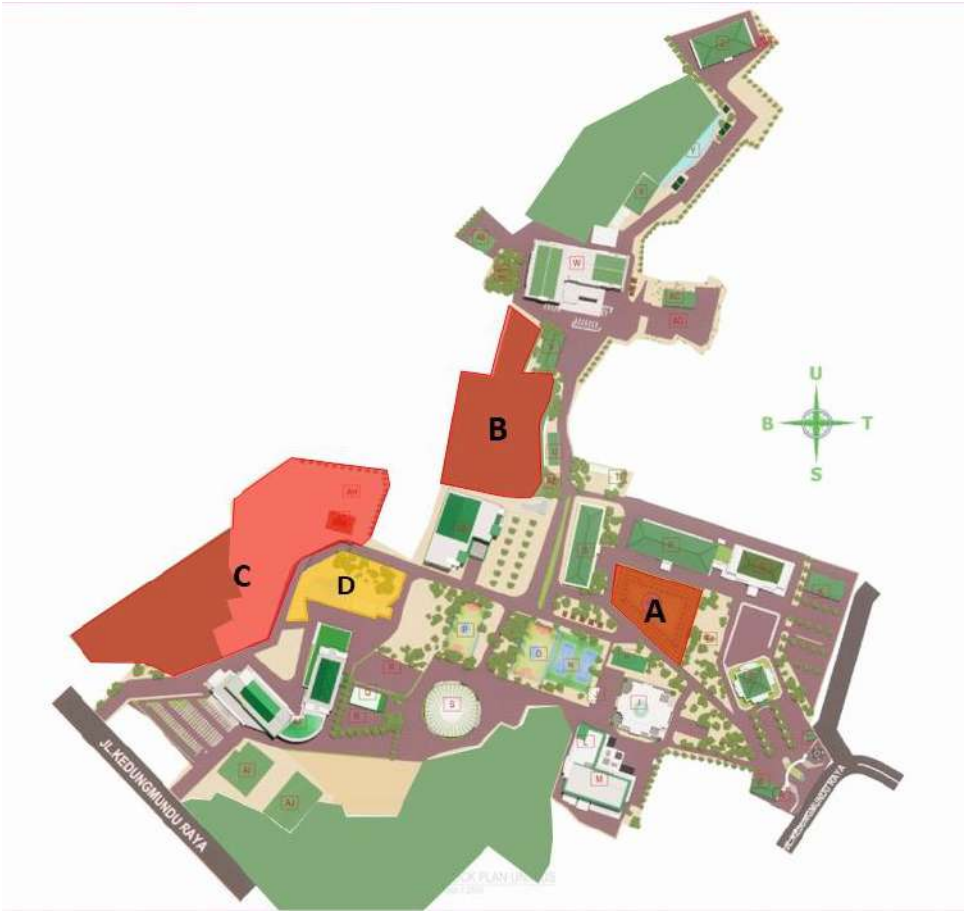
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https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu
UNIMUS Facility of Open Space Area: https://unimus.ac.id/taman-dan-gazebo/

Template for Evidence(s)
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[1] Setting and Infrastructure (SI)

[1.9] Total area on campus covered in forest vegetation used for research, teaching, and/or community engagement (meter^2) (SI.2)



Forest Vegetation and Green Space Distribution at Universitas Muhammadiyah Semarang

	
A. Area Community Engagement Area = 8.029,92 m^2	**B. Forest Campus** Area = 14.576,4 m^2
	
C. Urban Farming Area = 35.604,54 m^2	**D. Hutan Wakaf** Area = 3.000,4 m^2

Description:

The forest vegetation area of Universitas Muhammadiyah Semarang (UNIMUS) is documented as an integrated green infrastructure system presented not only as landscaped open space, but also as a functional ecological asset used for learning, applied research, student activities, and community engagement. The documented forest vegetation network consists of community engagement areas, the campus forest, urban farming/productive green areas, and in the year of 2026 update of Hutan Wakaf as a strengthened forest site for conservation and environmental education.

Indicator item	Information
Total campus area	212.834,00 m²
Total forest-vegetation area used for research, teaching, and/or community engagement 2025	58.210,86 m²
2026 forest site update	Hutan Wakaf is added as a documented forest site within the campus forest-vegetation network 3.000,4 m²
Total forest-vegetation area used for research, teaching, and/or community engagement 2026	61.001,26 m²
Forest-vegetation ratio to total campus area	34.89%

Indicator item	Information
Total distance/circumference of mapped vegetation area	2.914 m = 2.914 km

Calculation note: Forest-vegetation ratio = 61.001,26 m² / 212.834,00 m²× 100 = approximately 34.89%. The ratio is reported to show the contribution of forest vegetation to the total campus area and to keep this evidence consistent with other Setting and Infrastructure submissions.

Forest-Vegetation Components and Functions

No	Forest Vegetation Area/Site	Area information	Research, teaching, and/or community engagement function
1	Community Engagement Area	8,029.92 m²	Garden, gazebo, and shaded outdoor learning area for student discussion, organization activities, informal teaching, and public/community interaction.
2	Forest Campus	14,576.40 m²	Tree-dominated campus forest zone functioning as an ecological buffer, outdoor classroom, biodiversity learning space, and living laboratory for green campus studies.
3	Urban Farming and Productive Green Area	35,604.54 m²	Productive vegetation area supporting urban agriculture, hydroponics, vertical gardening, student practice, community education, and applied sustainability projects.
4	Hutan Wakaf (2026 forest site update)	3.000,4 m²	Forest-waqf area documented as of 2026 update to strengthen tree conservation, environmental education, community engagement, and long-term green stewardship.

1. **Community Engagement Area**
   This area consists of garden spaces, shaded gazebos, and outdoor seating areas that support informal learning, student organization activities, mentoring, and community interaction. The presence of vegetation improves thermal comfort, provides shaded gathering points, and encourages the academic community to use outdoor spaces for healthy, collaborative, and environmentally aware campus activities.

2. **Forest Campus**
   The Forest Campus area functions as the ecological lung of UNIMUS. It is planted with shade trees and conservation-oriented vegetation that help improve microclimate quality, reduce heat exposure, absorb carbon, enhance visual comfort, and support biodiversity within an urban campus setting. The area can be used as an outdoor classroom and living laboratory for topics such as green campus planning, biodiversity observation, urban ecology, environmental health, and sustainable landscape management.

3. **Urban Farming and Productive Green Area**
   The urban farming area strengthens the practical dimension of sustainability education. This productive green zone is used to demonstrate efficient urban agriculture on limited land, including plant cultivation, hydroponic/vertical planting practices, and environmentally friendly food-production learning. The area is relevant for teaching, student practice, applied research, and community engagement programs related to household-scale food security, healthy living, and productive green space development.

4. **Hutan Wakaf - 2026 Forest Site Update**
   Hutan Wakaf is added in the 2026 evidence as an updated forest site that strengthens UNIMUS forest-vegetation documentation. This site supports long-term green stewardship through tree planting, environmental education, conservation campaigns, and community-based sustainability activities. The concept of Hutan Wakaf also reinforces the university's Islamic and Muhammadiyah values by linking environmental protection with social responsibility and public benefit. As part of the campus forest-vegetation network, Hutan Wakaf provides added value for UI GreenMetric assessment because it shows an active and mission-based effort to expand and manage forest related campus functions beyond ornamental landscaping.

Compared with the previous submission, the 2026 explanation of forest vegetation clearly connects the green areas to research, teaching, and community engagement functions. The additional identification of Hutan Wakaf demonstrates that UNIMUS is improving the management and documentation of its forest-related campus assets. This update supports a stronger assessment because the forest vegetation area is presented as a measurable, functional, and educational sustainability resource rather than merely as general open space.

Total area: 61.001,26 m²
Total distance/circumference: 2.914 m = 2.914 km

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS GreenMetric Website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu
Launching of Hutan Wakaf: https://unimus.ac.id/berkolaborasi-dengan-lkhp-pp-muhammadiyah-dan-latin-unimus-luncurkan-hutan-wakaf-pendidikan-di-lingkungan-kampus/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.10] Total area on campus covered in planted vegetation (meter^2) (SI.3)

<table>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Taman Area Gazebo</td><td>Unimus Healing Garden</td></tr>
<tr><td colspan="2">  </td></tr>
<tr><td colspan="2">Area Gazebo</td></tr>
</table>



Planted Vegetation

Description:

Universitas Muhammadiyah Semarang (UNIMUS) continues to maintain planted vegetation as an important part of its sustainable campus landscape. The planted vegetation areas are distributed across the main campus and include lawns, ornamental gardens, shade-tree corridors, shrubs, small plants, vegetated pedestrian buffers, landscape areas around academic buildings, the gazebo garden area, and the UNIMUS Healing Garden.
Based on plant inventory, UNIMUS has recorded approximately 205 plant types spread throughout the campus area, ranging from small ground-cover plants and shrubs to medium and large shade trees.
This vegetation is not only used as aesthetic landscape treatment, but also contributes to thermal comfort, air-quality improvement, rainwater absorption, outdoor learning support, and student well-being.
The planted vegetation area is calculated by separating the total campus area from the building footprint and hardscape/concrete-block surfaces. This method provides a clearer and more accountable estimation of the vegetated surface within the campus boundary.
UNIMUS specifically strengthens two representative planted vegetation zones: the Garden and Gazebo Area, which functions as an outdoor learning and student interaction space, and the UNIMUS Healing Garden, which supports restorative campus experiences by providing a calm, green, and accessible environment for reducing stress and improving emotional comfort. Together with other planted landscape pockets, these areas demonstrate UNIMUS commitment to maintaining a green, healthy, and human-centered campus environment.

Area Calculation Summary

No	Area Component	Area (m^2)	Remarks
1	Total main campus area	212,834.00	Campus boundary used consistently for Setting and Infrastructure indicators
2	Total building base area	21,177.92	Building footprint excluded from open/vegetated area calculation
3	Total concrete block / hardscape area	31,604.18	Non-vegetated open surface such as paved circulation and parking support area
4	Total planted vegetation area	160,051.91	Green landscape area including gardens, lawns, shrubs, and planted vegetation zones
5	Percentage of planted vegetation to total campus area	75.20%	160,051.91 m^2 / 212,834.00 m^2 × 100

No	Area Component	Area (m²)	Remarks
6	Percentage of planted vegetation to total open space	83.51%	160,051.91 m² / 191,656.08 m² × 100

Planted Vegetation Distribution and Functions

No	Planted Vegetation Component	Main Function	Contribution to to Integrated & Sustainable Campus Management
1	Garden and Gazebo Area	Outdoor study, student gathering, organization activities, and informal learning	Shows accessible green open space that directly supports campus life and learning activities
2	UNIMUS Healing Garden	Restorative garden for relaxation, stress reduction, and emotional well-being	Supports a healthy campus environment and student-centered sustainability
3	Landscape around academic and service buildings	Shade, microclimate improvement, building-front greenery, and visual comfort	Demonstrates integration of vegetation with campus infrastructure
4	Planted pedestrian corridors and open landscape pockets	Pedestrian comfort, dust reduction, and greenery continuity	Strengthens walkability and climate-sensitive campus design
5	Shrubs, small plants, and shade trees across campus	Biodiversity support, carbon absorption, and air-quality improvement	Provides measurable green coverage and supports long-term green-campus maintenance

Total Planted Vegetation Area
Total planted vegetation area: 160,051.91 m²
Total campus area: 212,834.00 m²

Percentage area: 75.20%
Note: planted vegetation represents approximately 83.51% of the total open space area within the main campus boundary.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Garden and Plant Inventory:
https://drive.google.com/file/d/1lKLp7BqA_7w-poPG5i1qbtj3_V-FbO9I/view?usp=sharing
UNIMUS Facility of Open Space Area: https://unimus.ac.id/taman-dan-gazebo/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.15] Campus facilities for disable, special needs and or maternity care (SI.5)

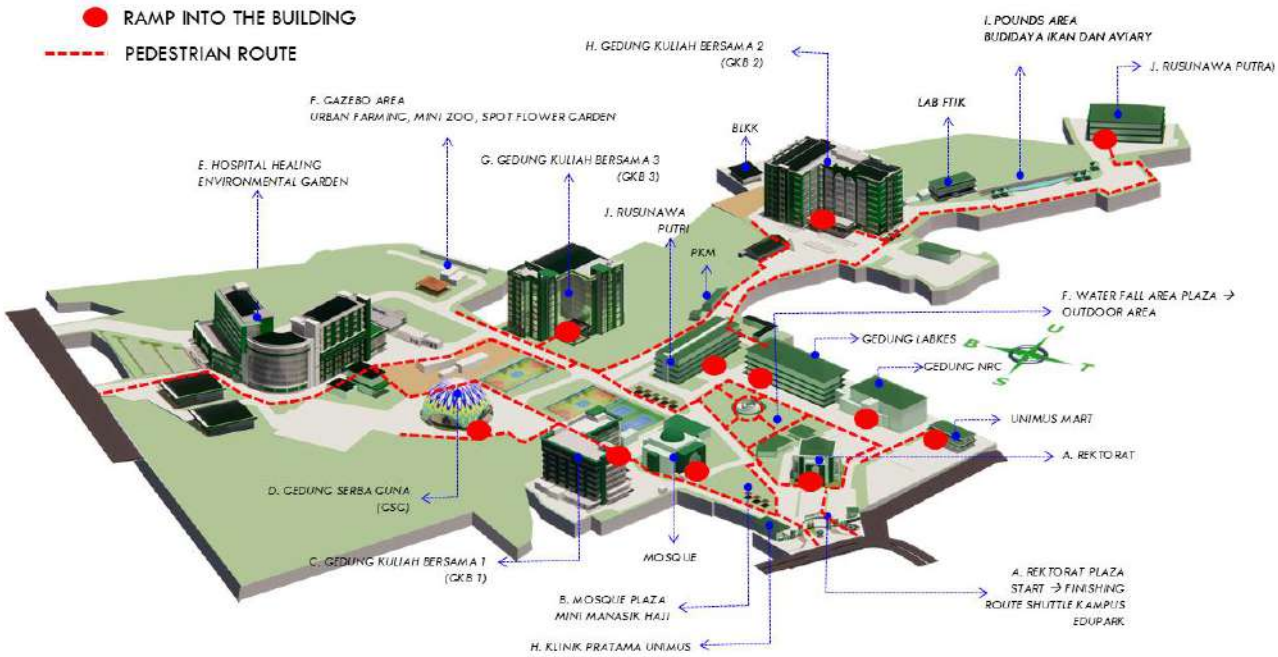


Campus Accessibility Facilities Map

	
Disabled parking	Accessible toilet
	
Lactation Room	Guiding Block untuk Disabilitas
	
Discussion Room for Students with Disabilities	Student Counseling Services for Mental Health Support



Drop Off Entry into the Building for the Disabled



Campus Accessibility Distribution Map

Description:

Universitas Muhammadiyah Semarang (UNIMUS) strengthens its inclusive campus environment by providing accessibility and welfare facilities for persons with disabilities, users with special mobility needs, and mothers who require maternity or lactation support. The facilities are placed at strategic points within the main campus area to reduce physical barriers and to support safe, independent, and comfortable movement for students, staff, visitors, and the surrounding community.

The facilities include disabled parking, accessible toilets, ramp and handrail access, barrier-free entrances, drop-off zones near building lobbies, guiding block/accessible circulation support, wheelchair assistance, lactation room facilities, and basic health support through the Unimus Medical Center.

The facilities for daily campus activities are not only provided as physical infrastructure, but also as part of UNIMUS commitment to equal access, health protection, gender-responsive services, and inclusive campus governance. The integration of these facilities across the academic, administrative, health-service, and public-use areas helps ensure that campus activities can be accessed by a wider range of users.

No.	Facility Type	Main Location / Coverage	Function	Contribution to Integrated & Sustainable Campus Management
1	Disabled parking	Strategic parking spaces near main campus buildings	Provides priority parking for users with disabilities and special mobility needs.	Improves access from the vehicle area to academic and service buildings.
2	Accessible toilet	Selected academic and service buildings	Provides wider movement space, handrails, and reachable sanitary equipment.	Supports safety, dignity, and independence for users with disabilities.
3	Ramp, handrail, and barrier-free entrance	Main building entrances and lobby areas	Facilitates wheelchair access and safer mobility for users with limited movement.	Reduces physical barriers and improves universal access.
4	Guiding block / accessible circulation support	Pedestrian circulation and building approach areas	Assists users in navigating campus pathways and building entrances.	Strengthens orientation, safety, and accessibility of campus circulation.
5	Drop-off entry point	Lobby areas of main buildings	Allows vehicles to stop closer to building entrances for users requiring assistance.	Shortens walking distance and improves accessibility during arrival/departure.
6	Wheelchair assistance	Campus service points / building lobby support	Supports mobility for users who need temporary or continuous assistance.	Enhances emergency readiness and daily mobility services.
7	Lactation room	Health/support-service area and designated room	Provides a private, comfortable, and hygienic space for breastfeeding mothers or staff/students who need to express breast milk.	Supports maternity care, gender equity, and family-friendly campus services.
8	Unimus Medical Center (UMC)	Campus health service facility	Provides basic medical support, consultation, and first response services for the academic community.	Connects maternity care, health protection, and inclusive welfare services.
9	Student Counseling Services for Mental Health Support	Campus health service facility	Support the mental and physical well-being of its students through comprehensive guidance and counseling services.	Services are designed to assist students in managing academic challenges, personal development, and emotional health, creating a supportive and

No.	Facility Type	Main Location / Coverage	Function	Contribution to Integrated & Sustainable Campus Management
				inclusive campus environment that promotes overall well-being.

1. Disabled parking and priority access. UNIMUS provides disabled parking spaces near major activity nodes so that users with disabilities can reach campus buildings with shorter and safer travel distances. The parking area is supported by visible markings and is connected to pedestrian access toward building entrances.
2. Accessible entrances, ramps, and handrails. Building entrances are supported by ramps, handrails, and barrier-free transition areas. This design allows wheelchair users, elderly visitors, pregnant women, and users with temporary injuries to enter buildings more safely and independently.
3. Drop-off points and mobility assistance. Main lobbies function as short-stop drop-off points for users who require closer access to the building entrance. Wheelchair assistance is also provided to support mobility within the campus environment, especially for users who need temporary help during academic, administrative, or health-service activities.
4. Accessible toilet facilities. Accessible toilets are provided with larger movement spaces, supporting handrails, and sanitary equipment that can be reached safely. These facilities help ensure comfort, privacy, and independence for users with disabilities and special needs.
5. Lactation and maternity support. The lactation room provides a private and comfortable facility for breastfeeding mothers, including female staff, lecturers, students, and visitors. This facility supports a family-friendly and gender-responsive campus environment.
6. Health-service support through UMC. Unimus Medical Center strengthens campus welfare services by providing health support for the academic community and visitors. Its presence complements accessibility and maternity-care facilities, particularly for first aid, consultation, and basic health assistance.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

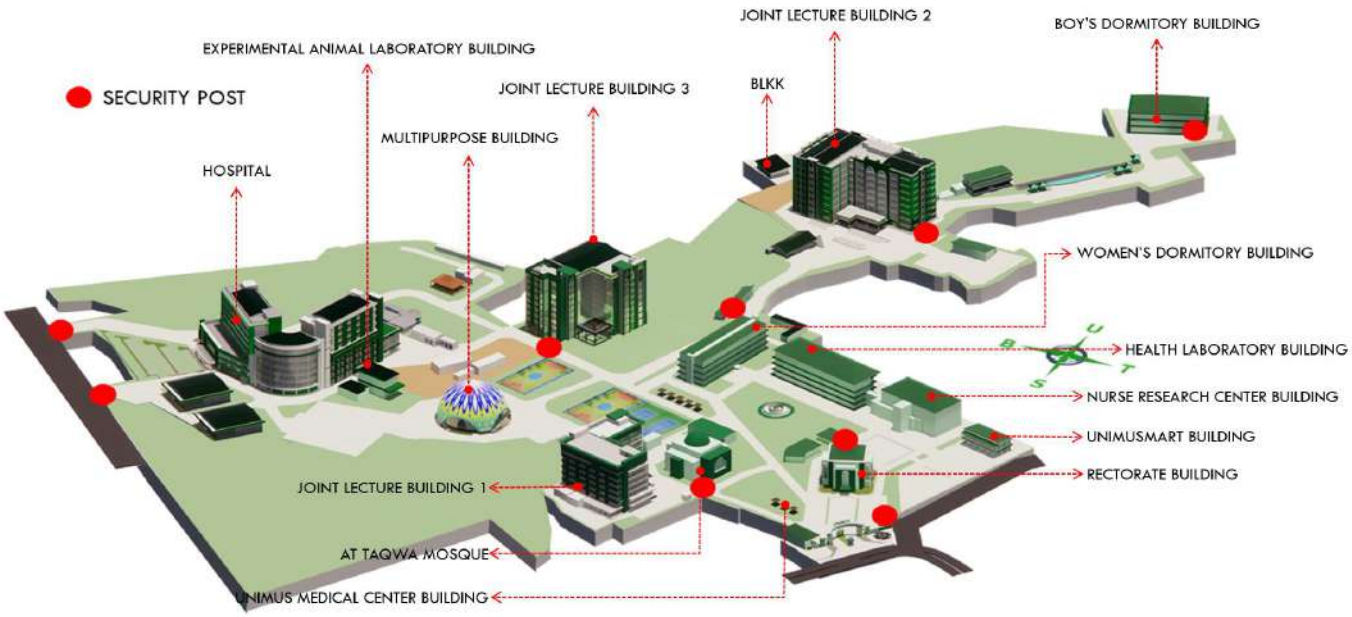
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Facilities: https://unimus.ac.id/kampus-unimus/
UNIMUS Equality, Diversity, and Inclusion (EDI) Facilities: https://sustainability.unimus.ac.id/social-impact/2025-social-impact/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

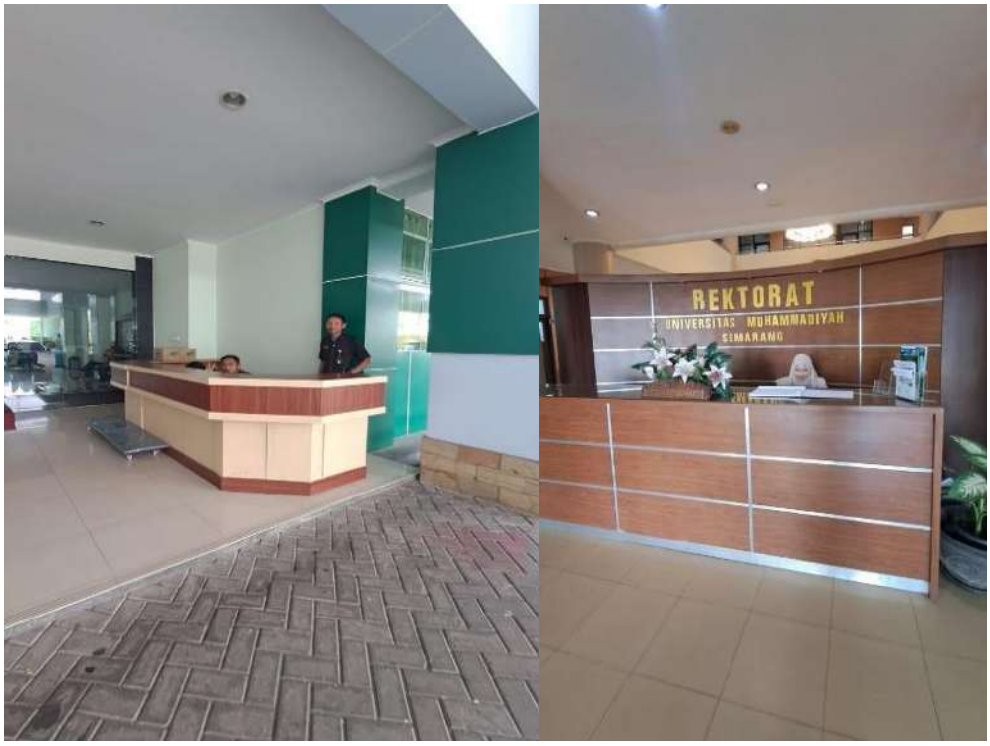
[1.16] Security and safety facilites (SI.6)



Security Post Map



Security Post



Receptionists Inside and Outside the Building



CCTV environment and in the building



Helmets and Watchlists in Each Building



Emergency Ladders And Fireproof Emergency Extinguishers



Fire Alarm and Hydran Box in the Building



APAR



Smoke Detector, Springler and Speaker Paging



Hydrant Pump and Springler System

Description:

Universitas Muhammadiyah Semarang (UNIMUS) strengthens campus security and safety through an integrated system that combines trained security personnel, monitored access points, surveillance technology, fire protection facilities, and emergency response equipment. The system is arranged to support safe learning, research, health services, worship, public services, and student activities across the campus environment.

The facilities are presented as an integrated safety-management arrangement. This helps demonstrate that security and emergency facilities are distributed throughout the campus and are used to reduce risk, support early detection, and improve response readiness.

Summary of Security and Safety Facilities

No.	Facility Category	Location/Distribution	Function for Safety and Security
1	Security personnel and guard posts	Main gate, parking zones, building lobbies, and strategic campus points	Access control, visitor direction, vehicle flow control, and prevention of unsafe activities.
2	CCTV surveillance	Indoor and outdoor areas, including entrances, lobbies, corridors, and selected public spaces	Continuous monitoring to support incident prevention, documentation, and rapid response.
3	Reception and monitoring desks	Inside and outside selected buildings	First-contact service, visitor management, information assistance, and reporting point.
4	Fire safety equipment	Campus buildings and technical/service areas	APAR/fire extinguisher, hydrant box, fire alarm, smoke detector, sprinkler system, hydrant pump, sound paging, emergency stairs, and fire-resistant doors.
5	Emergency guidance and protection	Building corridors, emergency routes, and selected evacuation points	Evacuation signs, emergency direction, helmets, watchlists, and response-support equipment.
6	Training and equipment testing	Campus safety units in coordination with relevant external emergency services	Regular training and testing of equipment to improve emergency preparedness, including fire response readiness.

Operational Description

1. Security guards are assigned at the main security post, parking areas, and building access points to maintain order, control vehicle movement, and provide direct assistance to students, staff, guests, and visitors.
2. Security personnel are supported by Garda Pratama certification and are arranged in shifts to maintain consistent supervision of campus activities.
3. CCTV cameras are installed at various strategic points, both inside buildings and in outdoor campus areas, to support 24-hour monitoring and incident documentation.
4. Reception areas and building front desks strengthen visitor control, direct reporting, and immediate coordination with security officers when assistance is needed.
5. Fire protection facilities are provided in buildings, including APAR, hydrant boxes, fire alarms, smoke detectors, sprinkler systems, hydrant pumps, sound paging systems, emergency stairs, and fire-resistant emergency doors.
6. Evacuation signs and emergency guidance facilities are installed to assist building users in identifying safe routes during emergencies.
7. Routine checks, watchlists, and safety equipment testing are used to maintain the functionality of emergency devices and improve campus preparedness.

Main Safety and Security Facility List

1. APAR / portable fire extinguishers
2. Fire alarm system
3. Smoke detectors
4. Sprinkler system
5. Hydrant system and hydrant pump
6. CCTV monitoring
7. Sound paging / emergency announcement system
8. Emergency stairs and fire-resistant emergency doors
9. Evacuation signs and emergency routes
10. Security guard posts and campus patrols
11. Reception and visitor monitoring points
12. Safety helmets, watchlists, and response-support equipment
13. Regular training and equipment testing with the Semarang City Fire Service

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS Safety Workshop: https://unimus.ac.id/fakultas-teknik-gelar-webinar-nasional-pelatihan-k3/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.17] Health infrastructure facilities for students, academics and administrative staffs' wellbeing (SI.7)



Health Facilities at Unimus Map



Unimus Medical Centre





UNIMUS Hospital

Description:

Universitas Muhammadiyah Semarang (UNIMUS) provides campus health infrastructure to support the wellbeing, safety, and daily activities of students, lecturers, academic staff, administrative staff, visitors, and the surrounding community. The health-support system is arranged through basic first-aid readiness in campus units, direct campus health services through the Unimus Medical Center (UMC), ambulance availability for urgent mobility needs, and referral-based services through the fully accredited UNIMUS Hospital. These facilities strengthen the university's commitment to a healthy, responsive, and inclusive campus environment.

1. **First-aid readiness in campus buildings.** First aid boxes are provided in units and buildings as basic safety equipment for handling minor accidents or initial health complaints. This facility helps ensure that the academic community can receive immediate first response before being referred to UMC or UNIMUS Hospital if necessary.
2. **Unimus Medical Center (UMC).** UMC functions as the primary campus health service point. It can be accessed by students, lecturers, employees, and visitors for basic medical consultation and first response. Its location within the campus area makes it easier for campus users to obtain health assistance without leaving the university environment.
3. **Ambulance and emergency mobility support.** Ambulance availability strengthens emergency preparedness by supporting patient mobility and referral when urgent treatment is required. This facility complements first-aid readiness and the presence of nearby health-service units.
4. **UNIMUS Hospital.** UNIMUS Hospital provides broader health services and functions as a health-service and teaching hospital facility. The hospital supports the wellbeing of the university community through medical services, emergency installation, polyclinic services, inpatient care, and supporting medical facilities.
5. **Doctor on duty, polyclinic, emergency, and inpatient services.** The availability of professional medical personnel, outpatient/poly services, emergency installation, and inpatient care improves the continuity of health services from basic consultation to further medical treatment.
6. **Maternity-care and family-friendly health support.** The presence of health infrastructure, including UMC and UNIMUS Hospital, also supports maternity-care needs and family-friendly campus services. This strengthens the university’s commitment to wellbeing, gender-responsive facilities, and inclusive campus support.

Health Infrastructure Facility Inventory

No.	Health Infrastructure	Main Location / Coverage	Service Function	Contribution to Campus Wellbeing
1	First Aid Boxes	Available in campus units and buildings	Provides initial first-aid support for minor accidents, injuries, or sudden health complaints before further medical handling.	Improves basic emergency readiness in academic, administrative, and public-use areas.
2	Unimus Medical Center (UMC)	Campus primary health facility	Provides accessible health consultation, basic examination, first response, and daily health support for students, lecturers, staff, and visitors.	Strengthens campus health protection and provides a first point of contact for medical support.
3	Ambulance Service	Campus health-support facility	Supports emergency transportation and patient mobility when immediate referral or evacuation is required.	Improves emergency response capacity and referral readiness.
4	UNIMUS Hospital	Integrated teaching hospital and public health-service facility	Provides comprehensive health services, supported by medical personnel, specialist services, emergency unit, inpatient services, and supporting facilities.	Ensures stronger referral access, clinical education support, and wider health service for the academic community and public.
5	Doctor on Duty and Polyclinic Services	UMC and UNIMUS Hospital	Provides professional medical assessment, consultation, and outpatient services.	Supports early detection, treatment, and routine health access.
6	Emergency Installation (IGD) and Inpatient Services	UNIMUS Hospital	Provides emergency medical handling and inpatient care for cases requiring further treatment.	Strengthens campus resilience through nearby emergency and referral care.
7	Maternity and Lactation-Related Support	UMC / UNIMUS Hospital and designated support areas	Supports women's health, maternity-related consultation, and family-friendly health services when needed.	Promotes gender-responsive, inclusive, and family-friendly campus welfare.

Service Coverage and Wellbeing Relevance

Service Category	Facilities / Support	Users Served	Contribution to Campus Wellbeing
Preventive and promotive health	Health information, basic consultation, first-aid readiness, and health-support access through UMC	Students, lecturers, academic staff, administrative staff, and visitors	Supports wellbeing, safety awareness, and healthy campus behavior.
Curative services	UMC, doctor on duty, polyclinic services, and hospital care	The academic community and the surrounding public	Provides accessible treatment and supports community-oriented health services.
Emergency response	First aid boxes, ambulance service, emergency unit, and referral pathway	Campus users requiring urgent support	Improves campus preparedness and risk response.
Referral and advanced care	UNIMUS Hospital with emergency installation, inpatient services, and medical support facilities	Campus community and general public	Provides comprehensive health infrastructure linked to teaching, service, and community engagement.
Inclusive and family-friendly support	Maternity-care support, lactation-related facilities, and accessible health-service points	Female students, lecturers, staff, visitors, and users with special health needs	Strengthens inclusive welfare and gender-responsive health support.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Health infrastructure facilities: https://fk.unimus.ac.id/layanan-kesehatan/
UNIMUS Health and Wellness Services: https://sustainability.unimus.ac.id/social-impact/2025-social-impact/
UNIMUS Hospital Website: https://rsunimus.com/
Unimus Medical Center (UMC): https://unimus.ac.id/layani-kesehatan-masyarakat-unimus-buka-klinik-pratama/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastructure (SI)

[1.18] Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities (SI.8)



Conservation Area Map



Retention Basin





Unimus Farm



Green House




Hutan Wakaf

Description:

Universitas Muhammadiyah Semarang (UNIMUS) maintains conservation facilities that support the protection of plant resources, agricultural biodiversity, water resources, and campus-based animal conservation. These facilities are used not only as physical green assets, but also as living laboratories for teaching, applied research, student practice, and community engagement related to sustainable campus management.

The conservation area is presented in a more integrated way by connecting the retention basin, UNIMUS Farm, greenhouse, campus biodiversity area, and Hutan Wakaf/Forest Campus as part of UNIMUS conservation-oriented infrastructure. This improvement clarifies the function of each conservation site and strengthens the evidence that the facilities contribute to medium- and long-term sustainability goals, including biodiversity preservation, food and agriculture education, water conservation, and ecological awareness.

The conservation facilities are located within the main campus environment and function as outdoor learning spaces. They support interdisciplinary activities involving agriculture, environmental management, health, architecture, engineering, and community service. The facilities also help create a greener campus setting by increasing vegetation cover, improving microclimate quality, supporting infiltration and water retention, and providing areas for biodiversity observation.

Conservation Facilities and Their Functions

No.	Conservation Facility	Main Conserved Resource	Contribution to to Integrated & Sustainable Campus
1	Retention Basin	Rainwater, aquatic microhabitat, surrounding vegetation, and local fauna.	Water conservation, rainwater retention, runoff control, landscape irrigation support, and environmental learning.
2	UNIMUS Farm	Agricultural land, food crops, small livestock/animal husbandry resources, and soil-water conservation practices.	Field practice and community engagement for sustainable farming, food/agriculture education, and resource management.
3	Greenhouse	Horticultural plants, seedlings, vegetables, hydroponic plants, and controlled-cultivation materials.	Controlled cultivation, plant propagation, hydroponic learning,

No.	Conservation Facility	Main Conserved Resource	Contribution to to Integrated & Sustainable Campus
			applied research, and efficient land-use demonstration.
4	Hutan Wakaf / Forest Campus	Shade trees, campus forest vegetation, native/local plants, and habitat-supporting greenery.	Outdoor conservation education, biodiversity support, carbon sequestration potential, ecological connectivity, and campus microclimate improvement.
5	Campus Biodiversity Support Area (Fish Pond, Aviary, Mini Zoo, and Flower Garden)	Fish, birds, ornamental plants, pollinator-friendly plants, and small-scale biodiversity resources.	Direct observation, biodiversity literacy, wildlife and plant care education, and engagement with students and communities.

Detailed Conservation Use

1. The retention basin serves as a water-conservation facility and a microhabitat that can be observed in teaching activities related to landscape, drainage, and environmental management.
2. UNIMUS Farm provides an applied learning space for sustainable agriculture, animal care, and community-based food-resource education.
3. The greenhouse supports horticultural cultivation, hydroponic practice, seedling management, and plant conservation activities under a controlled environment.
4. Hutan Wakaf/Forest Campus strengthens the year of 2026 conservation by adding a long-term campus forest site for tree conservation, biodiversity improvement, and green campus engagement.
5. The biodiversity support area, including fish pond, aviary, mini zoo, and flower garden elements, enriches animal and plant conservation learning within the campus environment.

Overall, the retention basin, UNIMUS Farm, greenhouse, Hutan Wakaf/Forest Campus, and biodiversity support areas demonstrate UNIMUS commitment to conserving plant, animal, wildlife, and genetic resources for food and agriculture. These areas also provide educational, research, and community engagement benefits while supporting sustainable infrastructure, green campus development, and long-term ecological stewardship.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Conservation Facilities: https://agribisnis.unimus.ac.id/fasilitas/
Launching of Hutan Wakaf: https://unimus.ac.id/berkolaborasi-dengan-lkhp-pp-muhammadiyah-dan-latin-unimus-luncurkan-hutan-wakaf-pendidikan-di-lingkungan-kampus/
UNIMUS conservation support actions through assisted villages: https://unimus.ac.id/panen-perdana-padi-unimus-bersama-petani-kendal-wujud-nyata-sinergi-kampus-dan-desa-untuk-kemandirian-pangan/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[1] Setting and Infrastrcuture (SI)

[1.19] Impact of Setting and Infrastructure programs in supporting the Sustainable Development Goals (SDGs)



Integrated Green Campus Masterplan



SINTASET: Sustainable Infrastructure Data Management

Integrated campus masterplan and SINTASET digital asset system as supporting evidence for sustainable infrastructure governance

Description:

Universitas Muhammadiyah Semarang (UNIMUS) continues to strengthen the role of campus setting and infrastructure as a practical instrument for supporting the Sustainable Development Goals (SDGs). In 2026, the evidence is presented in a more impact-oriented manner by linking infrastructure planning, green open space management, conservation areas, inclusive access, health and safety facilities, digital asset governance, and community-oriented campus services to measurable SDG contributions.
The campus is not only described as a collection of buildings and open spaces, but as an integrated environment that supports learning, wellbeing, resource efficiency, climate awareness, biodiversity protection, and social inclusion.

<u>Key Setting and Infrastructure Indicators Used as SDG Evidence</u>

Indicator	Information	Sustainability Relevance	Related SDGs
Total main campus area	212,834.00 m²	Provides the spatial baseline for sustainable campus planning and infrastructure management.	SDG 9, 11

Open space area	191,656.08 m² / 90.05%	Supports air quality, climate comfort, stormwater absorption, and healthier campus activities.	SDG 3, 11, 13, 15
Planted vegetation area	160,051.91 m² / 75.20%	Strengthens shading, thermal comfort, carbon absorption, biodiversity, and outdoor learning spaces.	SDG 4, 11, 13, 15
Forest vegetation and conservation-related areas	58,210.86 m² / ±27.35% of total campus area	Used to support environmental education, research, conservation awareness, community engagement, and biodiversity maintenance.	SDG 4, 13, 15, 17
Accessible and inclusive facilities	Disabled parking, accessible toilets, ramps/handrails, drop-off points, guiding blocks, wheelchair assistance, lactation room, and UMC support	Improves equitable access, safety, gender-responsive services, and welfare for students, staff, and visitors.	SDG 3, 4, 5, 10, 11
Health, safety, and emergency facilities	UMC, UNIMUS Hospital, first aid boxes, ambulance, doctor on duty, fire safety equipment, CCTV, security posts, and evacuation facilities	Supports wellbeing, emergency readiness, and safe campus operations.	SDG 3, 9, 11, 16
Digital infrastructure asset governance	SINTASET asset information system	Improves the monitoring of land, buildings/rooms, inventory, transportation, grants, and room usage for accountable infrastructure governance.	SDG 9, 12, 16

Main Programs and Their Impact on SDGs

1. **Sustainable campus masterplan and compact infrastructure planning**
   UNIMUS applies an integrated campus planning approach that combines academic buildings, green open spaces, health facilities, worship areas, student facilities, and service areas within one main campus setting. This planning supports efficient land use, inclusive circulation, and better coordination of campus resources.
   Impact: Contributes to resilient campus infrastructure, sustainable urban development, and accountable institutional planning. Related SDGs: SDG 9, 11, 16, 17.
2. **Green open space expansion and planted vegetation management**
   The campus maintains large open spaces and planted vegetation that function as outdoor learning areas, thermal comfort buffers, oxygen-producing landscapes, and campus biodiversity zones. These areas include

gardens, gazebo areas, healing garden elements, tree-lined pedestrian routes, and planted zones surrounding buildings.
Impact: Improves air quality, reduces heat stress, supports outdoor learning, and strengthens climate adaptation within an urban campus context. Related SDGs: SDG 3, 4, 11, 13, 15.

3. **Forest vegetation, Hutan Wakaf, and conservation-based learning spaces**
The forest campus area, Hutan Wakaf, urban farming, and conservation spaces are used as environmental learning media and community engagement areas. These areas support planting activities, biodiversity awareness, ecological observation, and green campus education.
Impact: Strengthens long-term conservation culture, biodiversity protection, and environmental literacy among students and the surrounding community. Related SDGs: SDG 4, 13, 15, 17.
4. **Rainwater, retention basin, and ecological water management**
The retention basin and water-related landscape elements support rainwater retention, runoff control, groundwater conservation, and microhabitat development. These facilities also provide learning opportunities related to water-sensitive campus planning.
Impact: Reduces flood risk, supports water conservation, and promotes ecological landscape management. Related SDGs: SDG 6, 11, 13, 14, 15.
5. **Inclusive access and universal design facilities**
Accessible toilets, ramps, handrails, guiding blocks, drop-off points, disabled parking, wheelchair assistance, and maternity-support facilities are provided to improve access for users with disabilities, pregnant women, elderly visitors, and users with temporary mobility limitations.
Impact: Promotes equal access to education and campus services, reduces physical barriers, and strengthens gender-responsive and inclusive campus governance. Related SDGs: SDG 3, 4, 5, 10, 11.
6. **Health, wellbeing, safety, and emergency readiness**
UNIMUS provides health-service support through the Unimus Medical Center and UNIMUS Hospital, supported by ambulance access, first-aid boxes, emergency services, safety equipment, hydrants, alarms, CCTV, security posts, and evacuation facilities.
Impact: Improves campus wellbeing, emergency response, and safety readiness for students, lecturers, staff, visitors, and surrounding communities. Related SDGs: SDG 3, 9, 11, 16.
7. **Low-emission mobility and pedestrian-oriented campus circulation**
The campus supports pedestrian movement through connected routes, accessible pathways, shuttle route integration, drop-off organization, and circulation arrangements that encourage safer and more efficient movement within the campus.
Impact: Reduces dependency on short-distance motorized movement, improves walkability, and supports healthier daily mobility. Related SDGs: SDG 3, 11, 13.
8. **Digital asset management and evidence-based infrastructure governance**
SINTASET is used to record and manage campus assets such as land, building/room data, inventory, transportation assets, grant assets, and room utilization. This digital approach improves data availability for planning, maintenance, accountability, and sustainability reporting.
Impact: Supports transparent asset governance, efficient resource management, and evidence-based decision-making in campus operations. Related SDGs: SDG 9, 12, 16, 17.

SDG Contribution Matrix

SDG	Infrastructure-Based Support	Main UNIMUS Program	Expected Impact
SDG 1 No Poverty	Equitable access to campus learning spaces and community-oriented facilities.	Training facilities, inclusive public campus spaces, community engagement areas, and	Supports capacity building and access to educational opportunities.

SDG	Infrastructure-Based Support	Main UNIMUS Program	Expected Impact
		community service activities.	
SDG 2 Zero Hunger	Sustainable agriculture and food-resource learning.	UNIMUS Farm, urban farming, greenhouse, fish pond, and food/agriculture-related conservation areas.	Supports food-system literacy, applied learning, and sustainable agriculture practice.
SDG 3 Good Health and Wellbeing	Health services, safe circulation, green spaces, and emergency readiness.	UMC, UNIMUS Hospital, healing garden, first aid boxes, ambulance, safety facilities, and accessible campus routes.	Improves wellbeing, health access, safety, and stress-reduction environment.
SDG 4 Quality Education	Infrastructure as a living laboratory for sustainability education.	Green campus areas, conservation area, laboratories, outdoor learning space, SINTASET data, and inclusive learning facilities.	Strengthens practice-based learning and sustainability literacy.
SDG 5 Gender Equality	Gender-responsive and family-friendly facilities.	Lactation room, maternity-care support through UMC/Hospital, safe and accessible facilities.	Supports women, mothers, and family-friendly campus participation.
SDG 6 Clean Water and Sanitation	Water management and sanitation accessibility.	Retention basin, infiltration/rainwater management support, accessible toilets, and eco-sanitation facilities.	Improves water conservation, sanitation access, and flood-risk reduction.
SDG 7 Affordable and Clean Energy	Energy efficiency in building operation and renewable-energy orientation.	Green building principles, natural lighting/ventilation, and solar panel utilization as reported in previous evidence.	Supports reduced energy demand and cleaner campus operation.
SDG 8 Decent Work and Economic Growth	Campus facilities that support skills development, entrepreneurship, and employability.	BLKK, laboratories, practice spaces, collaborative facilities, and community training support.	Improves practical competence and sustainable economic readiness.
SDG 9 Industry, Innovation, and Infrastructure	Resilient, inclusive, and digitally managed infrastructure.	Integrated masterplan, digital asset management through SINTASET, laboratories, campus building facilities.	Improves infrastructure accountability, innovation, and operational efficiency.
SDG 10 Reduced Inequalities	Universal access and inclusive campus design.	Disabled parking, accessible toilets, ramps/handrails, guiding	Reduces physical barriers and supports equal access for all users.

SDG	Infrastructure-Based Support	Main UNIMUS Program	Expected Impact
		blocks, drop-off points, wheelchair assistance.	
SDG 11 Sustainable Cities and Communities	Urban green campus planning and low-emission circulation.	Open space, planted vegetation, pedestrian routes, compact campus layout, health and safety facilities.	Supports a safer, greener, and more resilient urban campus environment.
SDG 12 Responsible Consumption and Production	Efficient asset and resource management.	SINTASET, waste separation support, infrastructure inventory, and sustainable campus operations.	Supports transparent use of assets and more responsible campus operations.
SDG 13 Climate Action	Climate-responsive campus setting.	Green open space, planted vegetation, forest vegetation, Hutan Wakaf, tree planting, and low-emission mobility support.	Supports carbon absorption, heat reduction, and climate awareness.
SDG 14 Life Below Water	Aquatic ecosystem awareness and water-body conservation.	Retention basin, fish pond, environmental education, water-sensitive campus landscape.	Supports water ecosystem literacy and responsible water management.
SDG 15 Life on Land	Terrestrial biodiversity and conservation spaces.	Forest campus, Hutan Wakaf, UNIMUS Farm, greenhouse, mini zoo, aviary, flower garden, and planted vegetation.	Supports biodiversity maintenance, habitat learning, and conservation culture.
SDG 16 Peace, Justice, and Strong Institutions	Safe, accountable, and well-governed campus environment.	Security posts, CCTV, safety facilities, emergency procedures, SINTASET data governance.	Supports safety, transparency, institutional accountability, and risk management.
SDG 17 Partnerships for the Goals	Collaboration and external engagement for sustainable campus development.	Partnerships with government, health-service units, community engagement programs, and GreenMetric reporting.	Strengthens cooperation, shared learning, and sustainability reporting culture.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS SDG'S Report: https://sustainability.unimus.ac.id/

Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.1] Energy Efficient Appliances Usage (EC.1)







LED BULB, LED T18, LED T8: Use of LED lighting and lamps with light detection (Universitas Muhammadiyah Semarang, Indonesia)





Solar Panel Street Lighting (Universitas Muhammadiyah Semarang, Indonesia)



PLTS OFF GRID Gazebo Unimus

	
Ac Inverter (Universitas Muhammadiyah Semarang, Indonesia)	Ac Inverter (Universitas Muhammadiyah Semarang, Indonesia)

Description:

Universitas Muhammadiyah Semarang (UNIMUS) has continued its energy-efficiency enhancement initiatives throughout the campus area by optimizing the use of environmentally friendly and low-consumption electrical equipment. The university has completed a total replacement of conventional lighting with energy-saving LED lamps (LED Bulb, LED T18, and LED T8), covering 18,752 units, which represents 100% transition to LED-based illumination systems across classrooms, laboratories, offices, and outdoor areas.

In addition, UNIMUS has gradually implemented inverter-type air conditioners to further reduce electricity consumption. Currently, 274 out of 1,184 units (23%) use inverter technology. The university also promotes the use of renewable energy through the installation of solar-powered street lighting (PJU Solar Panels), with 25 of 78 points (33%) already operating on solar energy.

Based on these implementations, the average percentage of energy-efficient equipment use on campus has reached approximately **52%**, placing UNIMUS in the “>50–75%” category under the UI Green Metric indicator EC.1. This progress reflects the university’s commitment to energy conservation and its alignment with the Sustainable Development Goals (SDG 7 – Affordable and Clean Energy and SDG 13 – Climate Action). Through the integration of LED lighting, inverter cooling systems, and solar infrastructure, UNIMUS actively contributes to reducing carbon emissions and promoting a sustainable campus environment.

Appliance	**Total Number**	**Total number energy Efficient appliances**	**Percentage**
LED Lamp	18.752	18.752	100%
Ac Inverter	1184	274	23%
PJU Solar Panel	78	25	33%
		Average Percentage	**52%**

Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.3] Smart Building Implementation (EC.2)

No	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m²)
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4	
			Penggunaan Ruang		Keamanan	Sensor Kehadiran	CCTV	Fire SYSTEM	Sistim Pembagian		Sistim Pen			Manajemen Udara			Manajemen Cahay				
1	ATM Center	City, Country	V																		23.73
2	Gedung UMC	City, Country	V																		143.05
3	Pos Satpam	City, Country	V																		53.34
4	Gedung Rektorat		V		V	V	V	V	V								V				593.98
5	Kantin																				318.05
6	Gedung Labkes		V		V	V	V	V	V		V						V				1,313.19
7	Gedung NRC		V		V	V	V	V	V												941.39
8	Garasi																				164.79
9	Masjid		V																		1,106.66
10	Gedung Driver																				88.04
11	Rumah Cubicle																				18.06
12	Gedung GKB 1-FK		V		V	V	V	V	V		V										2,150.42
13	Rumah Pompa																				60.09
14	Power House																				65.62
15	Rumah Genset																				68.75
16	Lap. Tenis																				1,353.19
17	Lap. Futsal																				1,162.59
18	GSG		V																		1,734.58
19	Rumah Pompa																				
20	Gedung Lab. Hewan Coba		V																		234.95
21	Area Parkir Lab. Hewan Coba		V																		
22	Bak Sampah																				
23	Gedung Asrama Putri		V		V	V	V	V	V												1,058.98
24	PKM Lama																				188.76
25	PKM Baru																				149.58
26	Kantin FT																				397.76
27	Gedung FT, MIPA, & GKB 2		V		V	V	V	V	V		V										2,394.52
28	Power House FT																				200.80
29	Rumah Pompa FT																				119.41
30	Unimus Mart		V																		395.93
31	Lap. Futsal Baru																				7,600.00
32	BLKK		V																		195.42
33	Gudang UPPU																				229.95
34	Embung																				
35	Rusunawa Putra		V																		886.55
36	RSP		V																		3,929.96
37	Pos Satpam RSP																				25.00
38	Bekas Gudang Sapua 1																				702.27
39	Bekas Gudang Sapua 2																				821.47
40	Joglo																				216.00
41	Unimus Farm																				
42	Gedung FKG, FKM, & GKB 3		V		V	V	V	V	V		V										1,870.53
43	Direksi Kit GKB 3																				
44	Pos Satpam GKB 2																				50.73
45	Gedung Service RSP																				396.93
46	Gedung Lab FTIK		V																		214.56

Smart building implementation

$$\frac{total\ smart\ building\ area}{total\ building\ area} \times 100\%$$

***Total Building Area: 105.442 m²**

$$\frac{79.448{,}00\ m^2}{105.442\ m^2} \times 100\% = 75.34\%$$

Universitas Muhammadiyah Semarang (UNIMUS) has integrated the concept of *smart building* into several key facilities that meet at least five intelligent features, including room automation, safety systems (CCTV and motion sensors), energy management, water waste management, and indoor environmental control.

As of 2025, UNIMUS has implemented smart building technology in multiple core buildings such as the Rectorate Building, Integrated Health Laboratory (Labkes), NRC Building, GKB I–III, Faculty of Engineering and Science (FT–MIPA), At-Taqwa Mosque, Research and Animal Laboratory, Unimus Medical Center (UMC), Vocational Training Center (BLK), Unimus Mart, and both Male and Female Islamic Boarding Schools (KH. Sahlan Rosjidi Complex).

The total area of these buildings is approximately 79,448 m², which represents 75.34% of the total campus building area (105,442 m²). This percentage places UNIMUS in the “>75–100%” category (Score 5) according to the UI GreenMetric criteria for Smart Building Implementation.

These buildings are equipped with various smart systems, including:

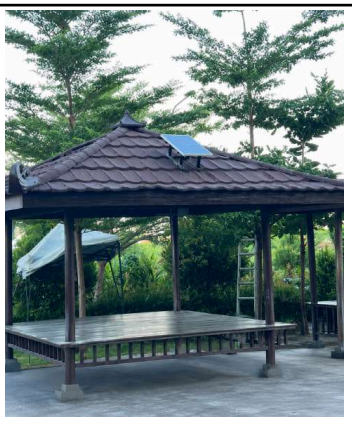
- Automated lighting using LED with motion and illumination sensors.
- Air conditioning management systems with timer and inverter-based operation.
- CCTV, digital access control, and safety monitoring integrated through a centralized network.
- IoT-based environmental monitoring for temperature, humidity, and energy consumption.
- Solar-powered outdoor lighting and efficient electrical distribution systems.

Through these initiatives, UNIMUS continues to strengthen energy efficiency, campus security, and sustainable building operations, aligning its development with Sustainable Development Goals (SDG 7 – Affordable and Clean Energy) and SDG 13 – Climate Action.

List of Smart Buildings Implemented at UNIMUS:

1. Rectorate Building
2. NRC Building
3. Integrated Health Laboratory (Labkes)
4. GKB I
5. GKB II
6. GKB III
7. Faculty of Engineering and Science (FT–MIPA)
8. At-Taqwa Mosque
9. Research and Animal Laboratory
10. Unimus Medical Center (UMC)
11. Vocational Training Center (BLK)
12. Unimus Mart
13. KH. Sahlan Rosjidi Male Boarding School
14. KH. Sahlan Rosjidi Female Boarding School

Rectorate Building	NRC Building
	
Integrated Health Laboratory (Labkes)	GKB I
	
Multipurpose building	GKB II
	
GKB III	AT-TAQWA Mosque
	
Research and Animal Laboratory	*Unimus Medical Center (UMC)*

	
KH. Sahlan Rosjidi Male Boarding School	KH. Sahlan Rosjidi Female Boarding School
	
FTIK laboratory building	Vocational Training Center (BLK) Building
	
Unimus Mart	Gazebo Unimus
	

Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.5] Renewable Energy Sources in Campus

	
Biodiesel-Ready Diesel Power Generator Unit (Universitas Muhammadiyah Semarang, Indonesia)	Biodiesel-Ready Diesel Power Generator Unit (Universitas Muhammadiyah Semarang, Indonesia)
	
PJU Solar Panel (Universitas Muhammadiyah Semarang)	PJU Solar Panel (Universitas Muhammadiyah Semarang)

	
Solar Panel BLK	Pilot Project PLTS OFF GRID Gazebo Unimus

Universitas Muhammadiyah Semarang (UNIMUS) has developed several renewable energy initiatives to enhance sustainability and energy independence within the campus area. The university utilizes three main renewable energy sources: biodiesel, solar power, and clean biomass (briquette stoves). These systems form part of UNIMUS's long-term strategy to transition toward green energy and reduce greenhouse gas emissions.

1. Biodiesel Power Generation
   UNIMUS operates two biodiesel-ready generator systems (CAT and MG Diesel Power) located in strategic facilities such as the Integrated Health Laboratory (Labkes), Unimus Medical Center (UMC), and the Data Center. Based on operational data, assuming an average 30 running hours per month, the generators produce approximately 45,840 kWh/month.
   The transition from conventional diesel to biodiesel (B20–B30) significantly reduces fossil fuel dependency and supports the national renewable energy policy.
2. Solar Power Systems
   UNIMUS operates two types of solar installations:
   - Solar-Powered Street Lighting (PJU Solar Panel): 25 units × 200 Wp = 5 kWp, producing roughly 675 kWh/month (assuming 4.5 peak sun hours/day).
   - Rooftop Solar at Vocational Training Center (BLK): 2 kWp system generating 270 kWh/month.
     The combined solar production equals 945 kWh/month, equivalent to ~1% of total monthly electricity consumption.
3. As part of the *Clean Biomass Program*, UNIMUS has introduced biomass briquette stoves in campus canteens. The briquettes, made from agricultural residues such as coconut shells and rice husks, are used for daily cooking. This initiative serves as a pilot project to reduce LPG consumption and promote renewable biomass energy utilization. The estimated energy contribution will be monitored during the next reporting period and included in subsequent GreenMetric evaluations.

Future initiatives include the integration of hybrid solar–diesel systems for laboratories and parking areas, along with the expansion of solar photovoltaic panels in new academic buildings. These actions reflect UNIMUS's continuous progress toward sustainable energy practices and are directly aligned with Sustainable Development Goals (SDG 7 – Affordable and Clean Energy) and SDG 13 – Climate Action.

No.	Renewable Energy Source	Production (kWh/month)	Application / Location	Remarks
1	**Biodiesel (B20–B30)**	45,840	Diesel generators at Labkes, UMC, and Data Center	Operational 2 × 200 kVA units, 30 hours/month
2	**Solar Power (PJU)**	0,180	Street lighting Main Campus Area	25 units × 200 Wp
3	**Solar Power – Rooftop BLK**	0,270	Vocational Training Center (BLK)	2 kWp rooftop array
4	**Clean Biomass (Briquette Stove)**	*(pilot stage)*	Campus canteen	Under evaluation
	Total Renewable Energy Production	**46,29 kWh/month**		

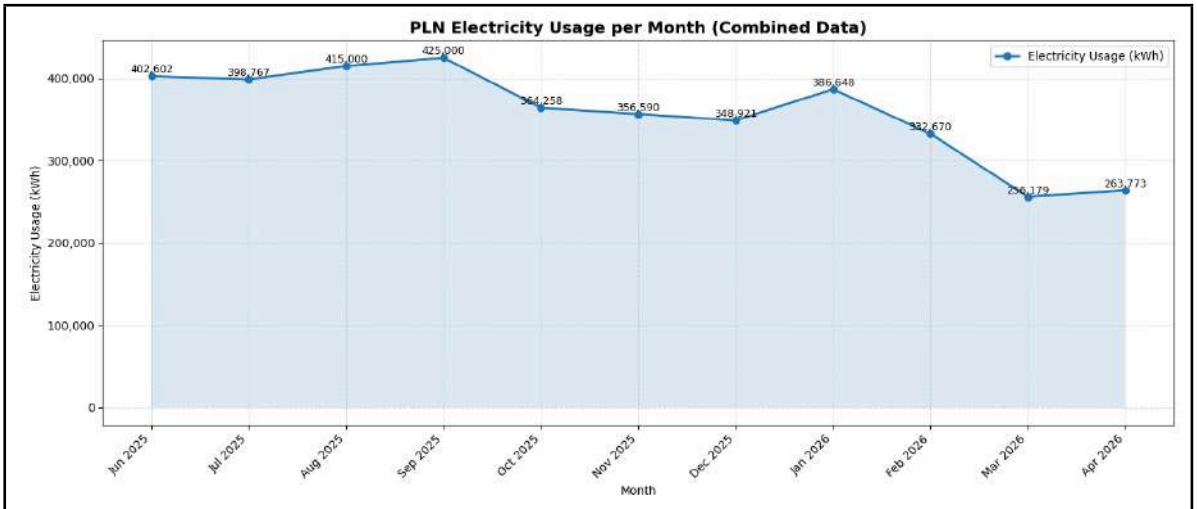
$$Renewable\ Energy\ Ratio\ =\ \frac{46{,}290}{383{,}430}\ x\ 100\%\ =\ 12,07\%$$

Evidence
UI GreenMetric Questionnaire

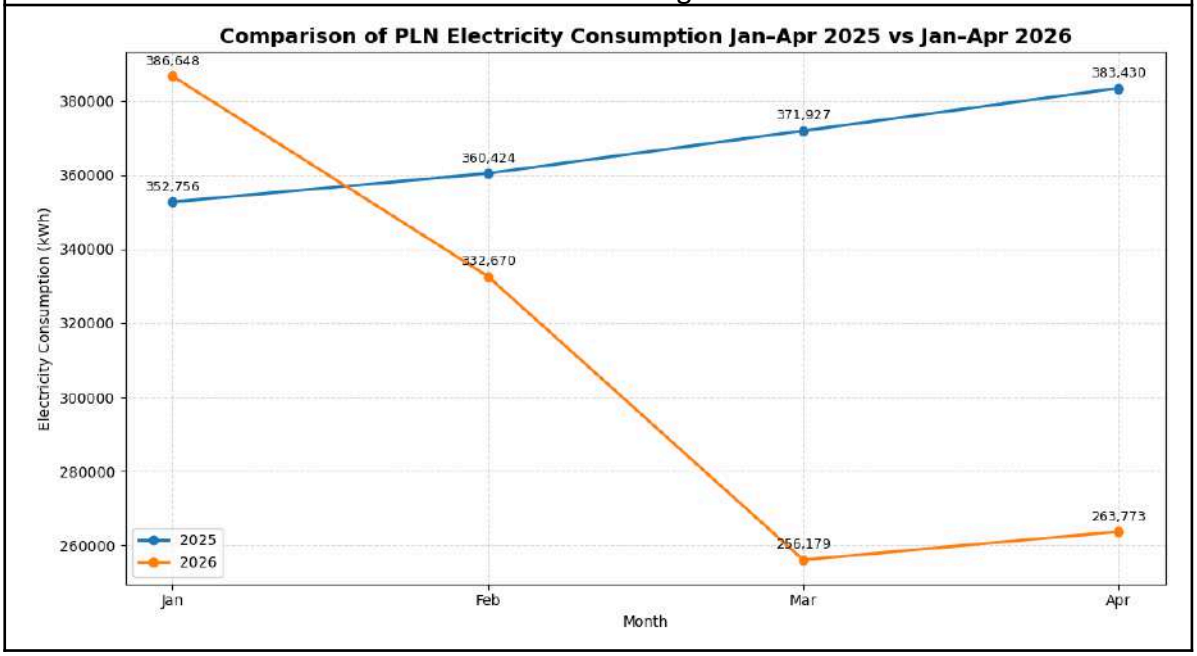
University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : unimus.ac.id

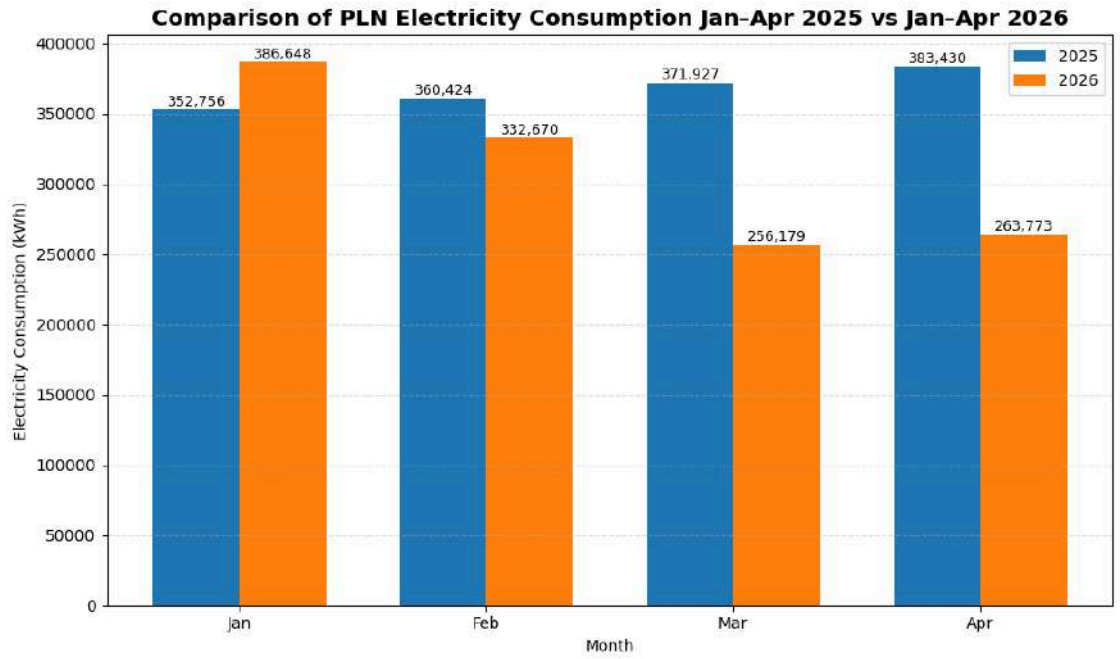
[2] Energy and Climate Change (EC)

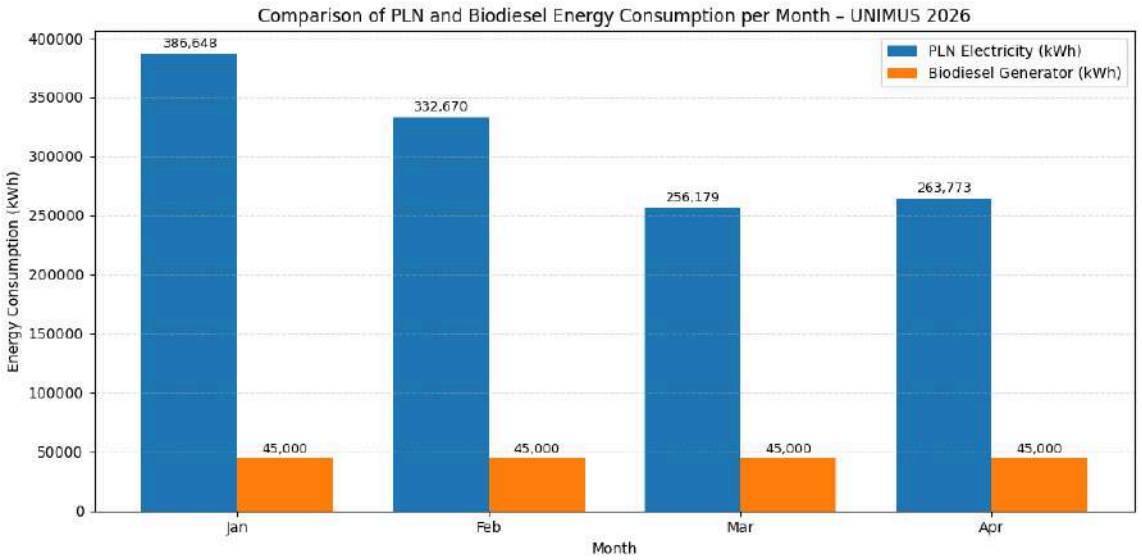
[2.6] Electricity Usage per Year (in Kilowatt hour)



Total Annual Kwh Usage of PLN







Example of Electricity Usage (kWh) Unimus

Universitas Muhammadiyah Semarang (UNIMUS) continuously monitors electricity consumption as part of its energy efficiency and sustainability initiatives. Based on the recorded monthly data, total PLN electricity consumption in 2025 reached 4,434,958 kWh, with an average monthly consumption of approximately 369,580 kWh. The highest consumption occurred in November 2025 at 480,773 kWh, while the lowest was recorded in March 2025 at 264,449 kWh. These variations reflect changes in academic, administrative, laboratory, clinical, and general campus operational activities throughout the year.

For 2026, the available data cover January to April, with total PLN electricity consumption reaching 1,239,270 kWh. The highest consumption during this period occurred in January at 386,648 kWh, followed by February at 332,670 kWh. Electricity consumption decreased further in March and April, reaching 256,179 kWh and 263,773 kWh, respectively.

A comparison of electricity consumption during the January–April period shows a significant overall reduction in 2026 compared with the same period in 2025. Total PLN electricity consumption decreased from 1,468,537 kWh in January–April 2025 to 1,239,270 kWh in January–April 2026. This represents a reduction of 229,267 kWh, or approximately 15.61%. Although electricity consumption in January 2026 was higher than in January 2025, consumption declined by approximately 7.70% in February, 31.12% in March, and 31.20% in April. The most substantial reductions occurred in March and April, indicating a marked decrease in electricity demand during these months.

Electricity usage by meter and location indicates that the Faculty of Engineering (FT), Faculty of Medicine (FK), GKB 3, RGSM, NRC, Rectorate Building, Rusun Putra, and PPNI/FKG are among the main electricity-consuming facilities at UNIMUS. Buildings with intensive academic, laboratory, clinical, and administrative activities generally require higher electricity consumption.

In addition to PLN electricity, UNIMUS uses biodiesel generators as supporting and backup power sources, particularly to maintain electricity reliability for critical campus facilities during power interruptions or operational emergencies. The electricity equivalent generated from biodiesel is estimated at approximately 46,000 kWh per month, or 552,000 kWh annually. Based on this estimate, biodiesel generator usage during January–April 2026 was approximately 184,000 kWh.

Compared with the estimated total annual energy consumption, PLN electricity contributes approximately 88.93%, while biodiesel generators contribute approximately 11.07%. This composition shows that PLN remains the primary energy source for campus operations, while biodiesel generators play an important supporting role in ensuring continuity and reliability of electricity supply. The biodiesel contribution should therefore be interpreted as supplementary and backup energy rather than as a replacement for the main PLN electricity supply.

Overall, the electricity consumption data provide an important basis for strengthening energy efficiency and sustainability programs at UNIMUS. The significant reduction in PLN electricity consumption during January–April 2026 may indicate improvements in energy-use efficiency, load management, or changes in campus operational activities. Relevant programs include the implementation of LED lighting, optimization of air-conditioning systems, electricity-load management, efficient laboratory scheduling, regular energy monitoring, and energy-saving awareness campaigns through the UNIMUS Green Campus program. Further evaluation of building occupancy, academic schedules, laboratory activities, and equipment usage is required to identify the specific factors contributing to the observed reduction.

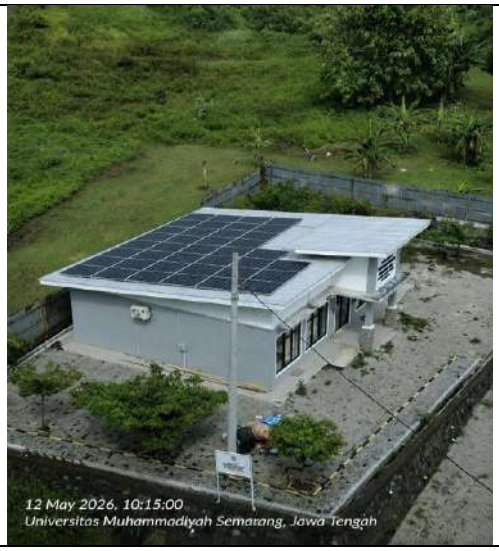
Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.8] ratio of renewable energy production divided by total energy usage per year (EC.5)

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<tr><td>Bio Diesel Caterpilar Unimus</td><td>Bio Diesel MG Unimus</td></tr>
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<tr><td>Solar Power (PJU)</td><td>Solar Power (PJU)</td></tr>
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Solar Power – Rooftop BLK	**Pilot Project PLTS OFF GRID Gazebo Unimus**

Description:

Universitas Muhammadiyah Semarang (UNIMUS) actively promotes the transition toward renewable and low-emission energy sources to reduce its dependency on fossil fuels. As of 2025, three major renewable energy systems are in operation across the campus: biodiesel power generation, solar-powered street lighting (PJU), and rooftop solar panels installed at the Vocational Training Center (BLK).

1. Biodiesel Power Generation – Two biodiesel-ready generator units (CAT & MG Diesel Power) serve critical facilities such as the Integrated Health Laboratory (Labkes), Unimus Medical Center (UMC), and the Data Center. With an average operation of 30 hours per month, these systems produce approximately 45,840 kWh/month, replacing conventional diesel with cleaner biodiesel (B20–B30).
2. Solar-Powered Street Lighting (PJU) – A network of 25 solar streetlight units (each 200 Wp) generates an estimated 675 kWh/month, supplying renewable electricity for outdoor lighting across main campus areas.
3. Rooftop Solar Installation (BLK) – A 2 kWp rooftop photovoltaic system installed at the Vocational Training Center produces roughly 270 kWh/month for local facility use.
4. Off-Grid Solar PV Gazebo – UNIMUS also operates an off-grid photovoltaic (PV) system installed at the campus gazebo. The system functions independently from the utility grid and supplies renewable electricity for lighting and small electrical loads in the surrounding area. The installation contributes approximately 200 kWh/month of clean electricity while serving as a demonstration facility for

The total renewable energy production amounts to 46,985 kWh/month, equivalent to 563,820 kWh/year. When compared to the university's total electricity consumption of 383,430 kWh/month (≈ 4,601,160 kWh/year), the ratio of renewable energy production is calculated as:

No	Renewable Energy	Production (in kWh)
1	Biodiesel	45,840
2	Solar panel	0,180
3	Solar Power Rooftop BLK	0,270
4	PLTS off grid gazebo	0,200
	Total	46,290

$$Renewable\ Energy\ Ratio\ = \frac{46{,}290}{369{,}547}\ x\ 100\%\ =\ 12.53\%$$

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.9] Elements of Green Building Implementation as Reflected in All Buildings (EC.6)

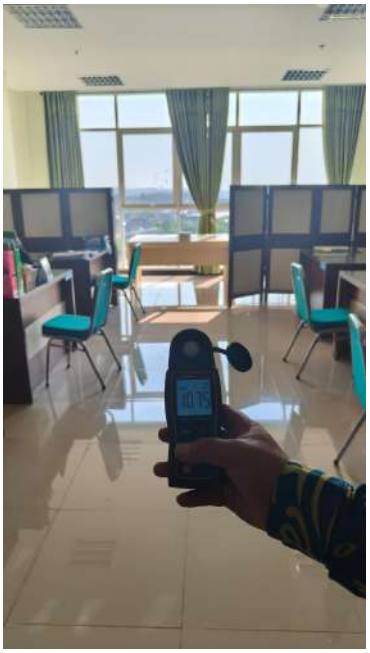
Large windows allow for ample natural daylight, minimizing the use of artificial lighting during daytime hours (Universitas Muhammadiyah Semarang, Indonesia)




1139


1045







The presence of natural ventilation systems promotes healthy air circulation and thermal comfort while reducing reliance on mechanical air conditioning (Universitas Muhammadiyah Semarang, Indonesia)





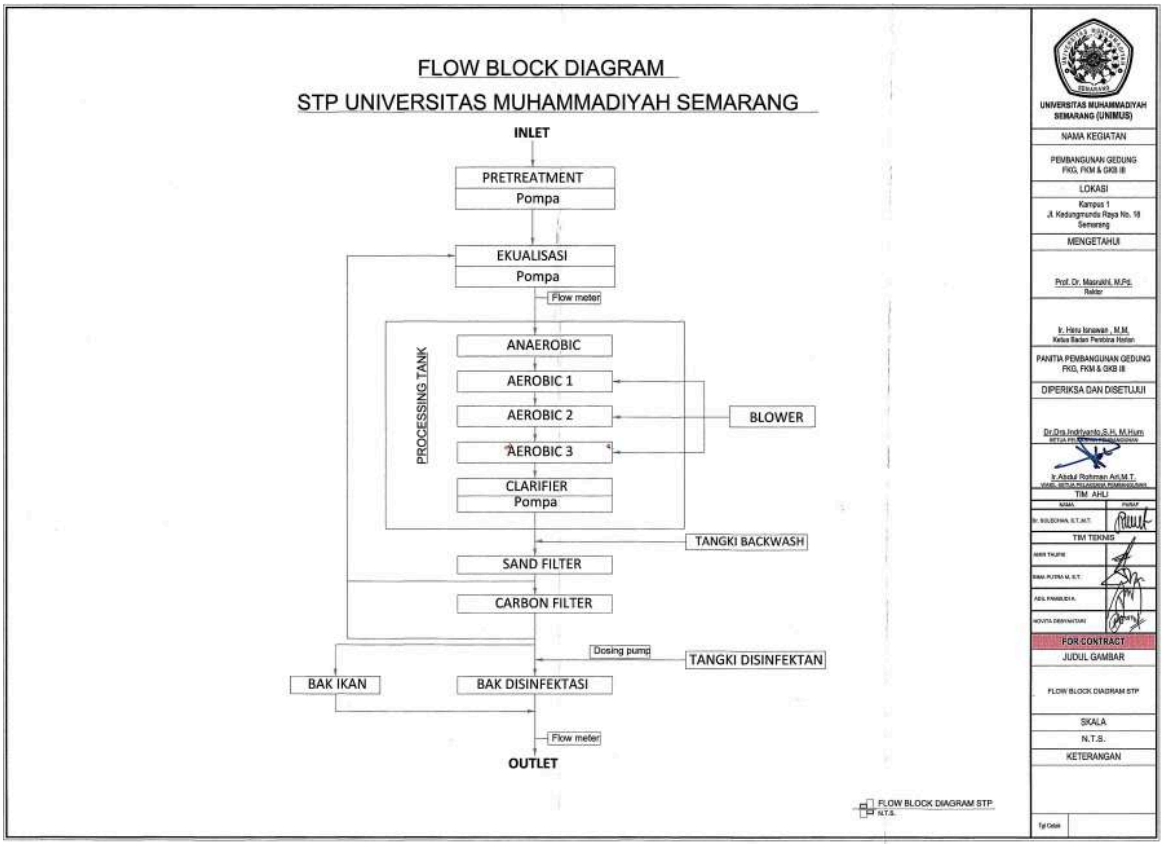


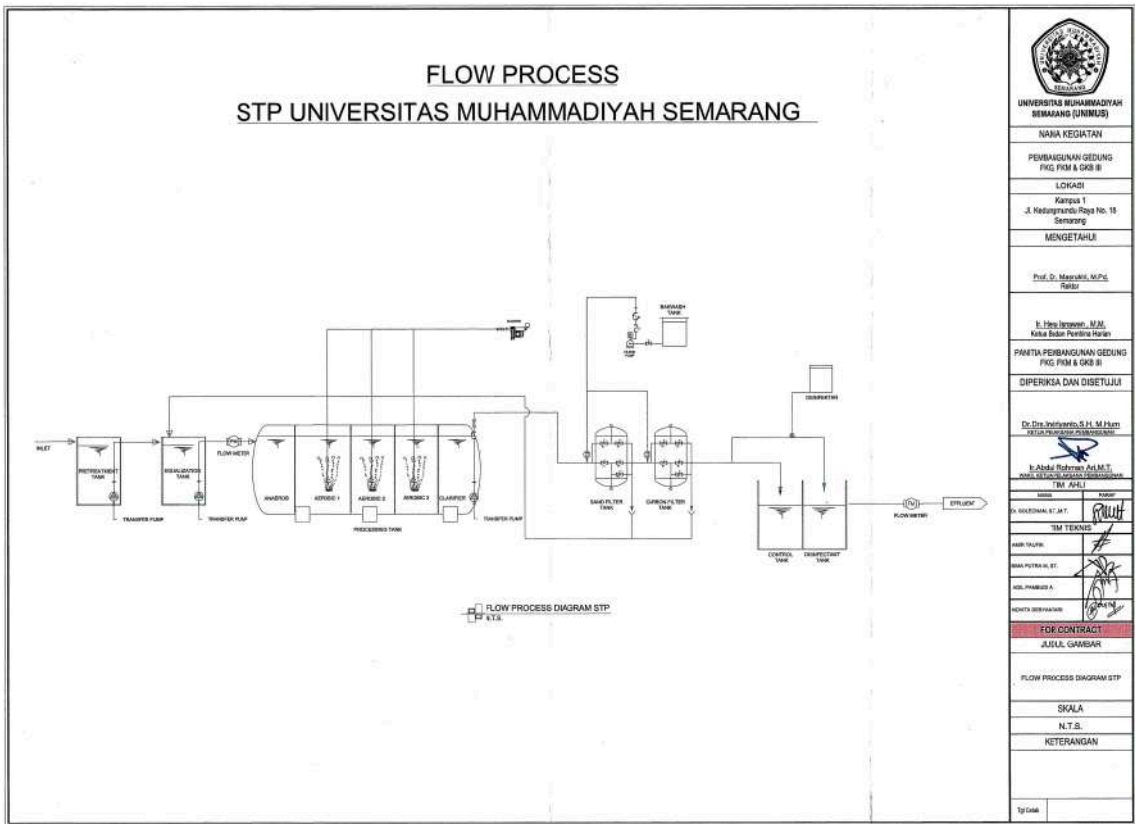



Water Efficiency The on-site Wastewater Treatment Installation (IPAL)









Electrical distribution panels and sub-metering systems are installed in several buildings to monitor and control energy usage efficiently





The photographs above illustrate the implementation of four Green Building elements within the UNIMUS campus facilities:

1. **Indoor Environmental Quality** The presence of natural ventilation systems promotes healthy air circulation and thermal comfort while reducing reliance on mechanical air conditioning. This approach enhances occupant well-being and supports energy conservation.

2. **Energy Efficiency** Large windows allow for ample natural daylight, minimizing the use of artificial lighting during daytime hours. This design strategy decreases electricity consumption and improves visual comfort within classrooms and laboratories.
3. **Water Efficiency** The On-site **Wastewater Treatment Installation (IPAL)** processes and reuses greywater for irrigation and sanitary flushing. This system demonstrates UNIMUS's commitment to responsible water management and conservation.
4. **Energy Management** Electrical distribution panels and sub-metering systems are installed in several buildings to monitor and control energy usage efficiently. These systems support energy audits and ensure continuous improvement in campus energy performance.

These elements collectively reflect a strong application of the **Green Building Index (GBI)** framework, integrating principles of efficiency, health, and sustainability across the campus. The combination of ventilation, daylighting, water recycling, and energy monitoring demonstrates UNIMUS's tangible actions toward sustainable campus management, aligned with SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities), and SDG 13 (Climate Action).

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.10] Greenhouse gas emission reduction program (EC.7)







	
1. Charge parking (RS Unimus)	2. Renewable energy (UNIMUS, Indonesia)











3. Ride Share (Universitas Muhammadiyah Semarang)

Description:

Universitas Muhammadiyah Semarang (UNIMUS) implements a systematic approach to reduce greenhouse gas emissions, focusing on energy transition and operational efficiency across all three scopes. The university employs **biodiesel-powered generators** to substitute fossil-based fuels (Scope 1), installs **solar-powered lighting systems** and LED-based energy-saving fixtures to reduce dependency on PLN electricity (Scope 2), and operates a comprehensive **wastewater treatment (IPAL)** and **waste segregation program** to minimize indirect emissions (Scope 3).

These programs are designed to minimize the university's carbon footprint through renewable energy utilization, improved energy efficiency, and sustainable waste management practices. The initiatives are aligned with **SDG 7 (Affordable and Clean Energy)**, **SDG 11 (Sustainable Cities and Communities)**, and **SDG 13 (Climate Action)**, contributing to UNIMUS's vision of a low-carbon, environmentally responsible campus.

Mapping of UNIMUS Activities to Greenhouse Gas Emission Scopes

Scope	Emission Data	UNIMUS Activities / Evidence (from document)	Description & Impact
Scope 1	Stationary combustion	Use of biodiesel generator (Bio Solar B20–B30)	Reduces CO_2 emissions from on-site power generation by replacing fossil diesel with biodiesel fuel.
	Mobile combustion	Limited vehicle usage and controlled university transport fleet	Minimizes direct fuel combustion emissions within campus operations.
	Process emissions	Proper ventilation and fume hood systems in laboratories	Prevents direct gas or chemical vapor release from lab activities.
Scope 2	Purchased electricity	Solar-powered Street lighting (PJU) and efficient lighting systems	Reduces dependency on electricity from PLN, which primarily sources energy from fossil fuels.
		Energy conservation programs and LED retrofitting	Decreases campus-wide electricity consumption and lowers indirect emissions.
Scope 3	Waste	Waste management and wastewater treatment (IPAL)	Reduces methane and CO_2 emissions from waste decomposition and water pollution.
	Purchased water	Water efficiency through reuse and recycling systems	Reduces energy required for municipal water treatment and delivery.
	Commuting	Campus area layout supporting pedestrian access	Lowers emissions generated from commuting by vehicles inside campus.

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.11] Please Provide The Total Carbon Footprint (CO_2 emission in the last 12 months, in metric tons)

CO_2 (electricity)

$$= \frac{electricity\ usage\ per\ year\ (kWh)}{1000} \times 0,84$$

$$= \frac{1.239.270\ kWh}{1000} \times 0,84$$

$$= 1.040,99 \text{ metric tons}$$

CO_2 (bus)

$$= \frac{number\ of\ shuttle\ bus\ in\ your\ university \times total\ trips\ for\ shuttle\ bus\ service\ each\ day \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ insid}{100}$$

$$= \frac{1 \times 9 \times 1.966 \times 240}{100} \times 0,01$$

$$= 0,42 \text{ metric tons}$$

CO_2 (cars)

$$= \frac{number\ of\ cars\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0,02$$

$$= \frac{517 \times 2 \times 1.966 \times 240}{100} \times 0,01$$

$$= 48,79 \text{ metric tons}$$

CO_2 (motorcycle)

$$= \frac{number\ of\ motorcycle\ entering\ your\ university \times 2 \times approximate\ travel\ distance\ of\ vehicle\ each\ day\ inside\ campus\ only\ (KM) \times 240}{100} \times 0,0$$

$$= \frac{5177 \times 2 \times 1.966 \times 240}{100} \times 0,01$$

$$= 482,88 \text{ metric tons}$$

CO_2 (total)

$$= 1.040,00 + + 0,42 + 48,79 + 482,88$$

$$= 1.573,08 \text{ metric tons}$$

Carbon footprint = 1.573,08 metric tons

Total Carbon Footprint (UI GreenMetric)

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.13] Number of innovative program(s) in energy and climate change (EC.9)





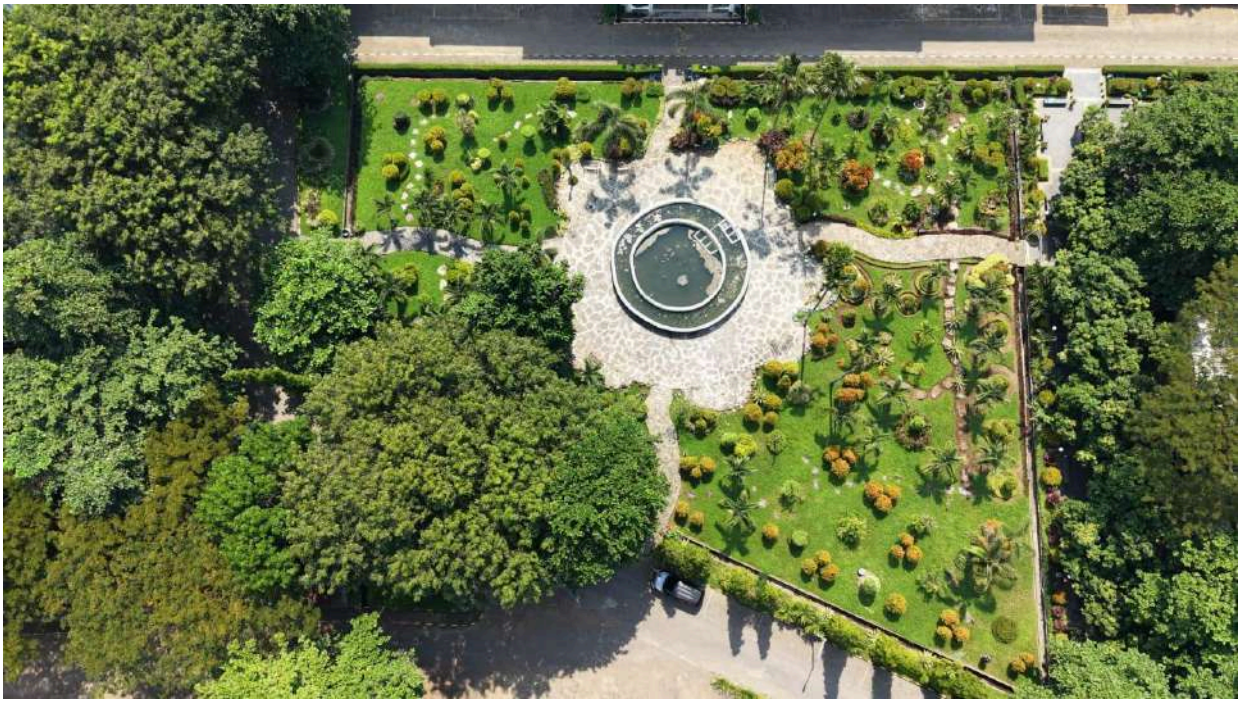



Renewable Energy System : Solar panel rooftop, biodiesel generator, smart microgrid.

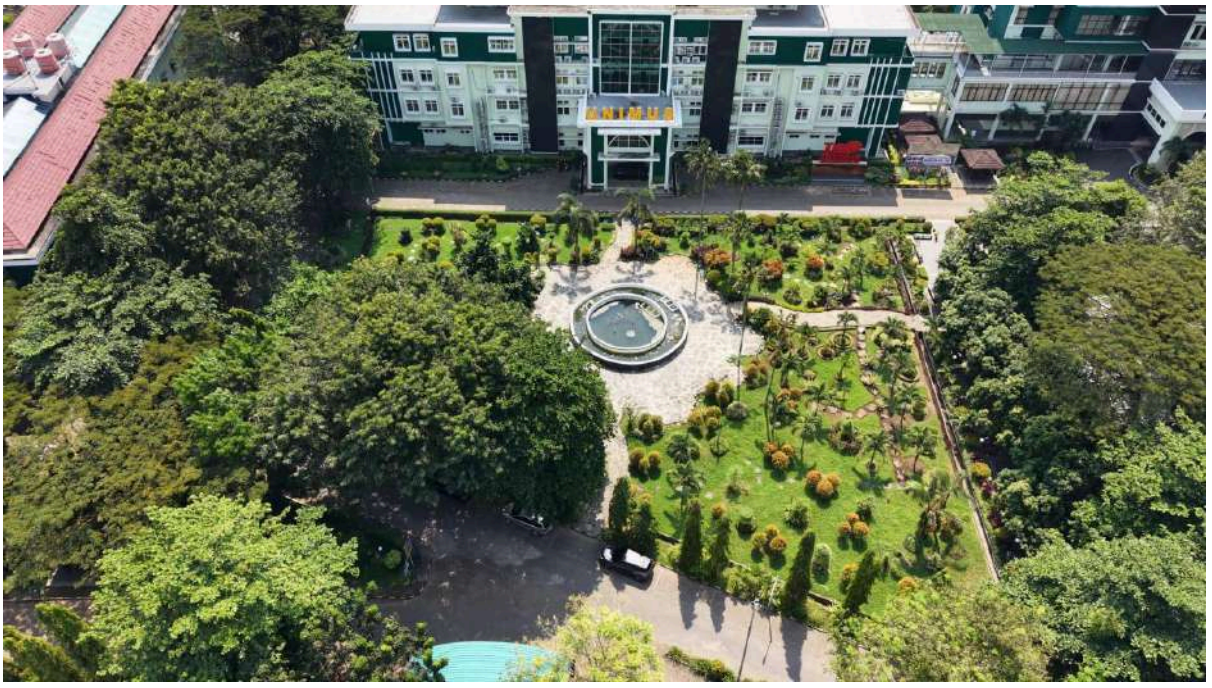



Water & Waste Energy Recovery (Waste-to-energy project)


UNIMUS

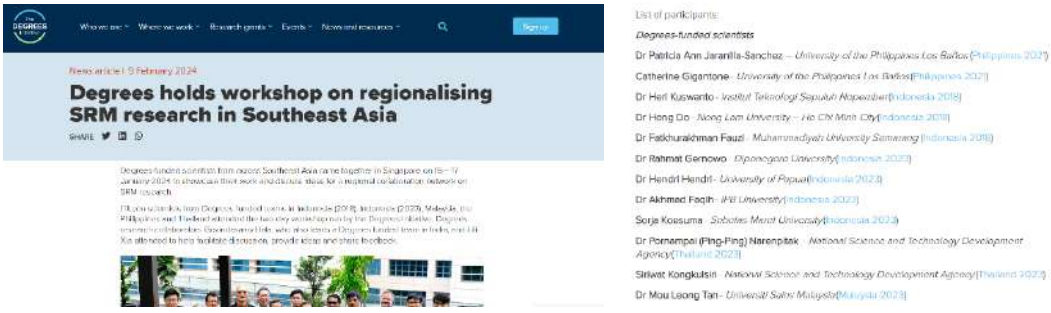



UNIMUS


UNIMUS



Climate Resilience Program (Green open space expansion)





Education or Community-based Innovation

Description:

Universitas Muhammadiyah Semarang (UNIMUS) has initiated several innovative programs to enhance energy efficiency and mitigate the impact of climate change. These programs reflect a comprehensive approach to sustainability through the integration of renewable energy systems, efficient energy management, and environmental resilience initiatives.

1. **Renewable Energy System**
   UNIMUS operates solar-powered systems, including rooftop solar panels and solar-powered street lighting (PJU), to supply renewable electricity for campus operations. The university also implements

biodiesel generators (Bio Solar B20–B30) as an alternative to fossil-based fuels, reducing direct carbon emissions from campus energy use.

2. **Energy Efficiency and Management Innovation**
   The implementation of IoT-based energy monitoring and automation systems optimizes lighting, air conditioning, and other electrical devices to minimize energy waste. Additionally, the campus lighting has been upgraded to LED technology to ensure long-term efficiency and reduced electricity consumption.
3. **Water and Waste Energy Recovery**
   The university operates an **IPAL wastewater treatment system**, where treated greywater is reused for irrigation and cleaning purposes. This reduces the energy required for municipal water processing while supporting sustainable resource management.
4. **Climate Resilience and Green Campus Program**
   UNIMUS continuously expands **green open spaces** and vegetation coverage across campus to enhance carbon absorption and reduce heat island effects. These initiatives contribute to local climate adaptation and promote biodiversity within the university environment.
5. **Education and Community-Based Innovation**
   The university conducts awareness campaigns and community training on renewable energy and climate action, aligning academic learning with environmental practice.

Link Evidence Program



KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor : 190/UNIMUS/SK.LL/2024
tentang
KEBIJAKAN PENGGUNAAN LAMPU *LIGHT EMITTING DIODE* (LED)
DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang : a. bahwa untuk meningkatkan efisiensi energi dan mendukung program penghematan listrik di lingkungan Universitas Muhammadiyah Semarang, perlu dilakukan penggantian lampu konvensional menjadi Lampu *Light Emitting Diode* (LED);
b. bahwa penggunaan Lampu *Light Emitting Diode* (LED) terbukti lebih hemat energi, ramah lingkungan, serta memiliki usia pakai yang lebih panjang;
c. bahwa sebagai perwujudannya perlu ditetapkan dengan surat keputusan Rektor.

Mengingat : 1. Undang–Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang–Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi;
3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup;
4. Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi;
5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang;
6. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027

MEMUTUSKAN

Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG KEBIJAKAN PENGGUNAAN LAMPU *LIGHT EMITTING DIODE* (LED) DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

PERTAMA : Mengesahkan *Standard Operating Procedure* (SOP) Pemanfaatan Listrik di Lingkungan Universitas Muhammadiyah Semarang sebagaimana tercantum dalam Lampiran Keputusan ini;

KEDUA : Unit Pelaksana Teknis (UPT) Pengembangan Proyek Universitas wajib melakukan inventarisasi dan penggantian lampu konvensional secara bertahap sesuai dengan ketersediaan anggaran dan prioritas kebutuhan.

KETIGA : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari ternyata terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya.

Ditetapkan di : Semarang
Pada tanggal : 17 Jumadil Awal 1446 H
19 November 2024 M

Rektor,

Prof. Dr. Masrokhi, M.Pd.

Salinan disampaikan kepada Yth :
1. Para Wakil Rektor
2. Para Dekan dan Ka Lembaga
3. Para Ka UPT
4. Para Ka Biro

KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor : 189/UNIMUS/SK.LL/2024
tentang
PENAMBAHAN SOLAR PANEL DI MASING-MASING GEDUNG
DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang : a. bahwa untuk meningkatkan efisiensi energi dan mendukung program pengurangan emisi karbon di lingkungan Universitas Muhammadiyah Semarang, perlu dilakukan penambahan solar panel pada masing-masing gedung;
b. bahwa pelaksanaan penambahan solar panel dimaksud sebagai upaya mendukung penerapan energi terbarukan dan keberlanjutan operasional
c. bahwa sebagai perwujudannya perlu ditetapkan dengan surat keputusan Rektor.

Mengingat : 1. Undang–Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang–Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi;
3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup;
4. Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi;
5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang;
6. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027

MEMUTUSKAN

Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG PENAMBAHAN SOLAR PANEL DI MASING-MASING GEDUNG DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

PERTAMA : Melaksanakan penambahan solar panel di masing-masing gedung yang berada dalam lingkungan Universitas Muhammadiyah Semarang

KEDUA : Daftar gedung prioritas pemasangan solar panel sebagaimana dalam lampiran Surat Keputusan ini;

KETIGA : Pemasangan solar panel di masing-masing gedung di bawah koordinasi Unit Pelaksana Teknis (UPT) Pengembangan Proyek Universitas;

KEEMPAT : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari ternyata terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya.

Ditetapkan di : Semarang
Pada tanggal : 26 Rabiul Akhir 1446 H
29 Oktober 2024 M

Rektor,

Prof. Dr. Masrokhi, M.Pd.

Salinan disampaikan kepada Yth :
1. Para Wakil Rektor
2. Para Dekan dan Ka Lembaga
3. Para Ka Biro
4. Ka UPT UPPU

KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor : 170/UNIMUS/SK.LL/2024

tentang

STANDARD OPERATING PROCEDURE (SOP) PEMANFAATAN LISTRIK
DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang :
a. bahwa penggunaan listrik di lingkungan Universitas Muhammadiyah Semarang perlu dikelola secara efektif dan efisien untuk mendukung kelestarian lingkungan dan penghematan energi;
b. bahwa diperlukan pedoman baku berupa *Standard Operating Procedure* (SOP) dalam pemanfaatan listrik di setiap unit kerja;
c. bahwa sebagai perwujudannya perlu ditetapkan dengan surat keputusan Rektor.

Mengingat :
1. Undang-Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang-Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi;
3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup;
4. Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi;
5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang;
6. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027

MEMUTUSKAN

Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG *STANDARD OPERATING PROCEDURE* (SOP) PEMANFAATAN LISTRIK DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG

PERTAMA : Mengesahkan *Standard Operating Procedure* (SOP) Pemanfaatan Listrik di Lingkungan Universitas Muhammadiyah Semarang sebagaimana tercantum dalam Lampiran Keputusan ini;

KEDUA : *Standard Operating Procedure* (SOP) sebagaimana dimaksud dalam Diktum KESATU menjadi pedoman seluruh unit kerja dalam pengelolaan, penggunaan, dan penghematan energi listrik;

KETIGA : Seluruh pimpinan unit kerja wajib melakukan sosialisasi, pelaksanaan, serta pengawasan terhadap implementasi *Standard Operating Procedure* (SOP) ini;

KEEMPAT : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari ternyata terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya.

Ditetapkan di : Semarang
Pada tanggal : 16 Rabiul Akhir 1446 H
19 Oktober 2024 M

Rektor,

Prof. Dr. Masrukhi, M.Pd.

Salinan disampaikan kepada Yth :
1. Para Wakil Rektor
2. Para Dekan dan Ka Lembaga
3. Para Ka UPT
4. Para Ka Biro

KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor : 188/UNIMUS/SK.LL/2024

tentang

KEBIJAKAN PENGGANTIAN PENERANGAN JALAN UMUM (PJU) DENGAN SOLAR PANEL
UNIVERSITAS MUHAMMADIYAH SEMARANG

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang :
a. bahwa dalam rangka peningkatan efisiensi energi dan mendukung gerakan lingkungan berkelanjutan, perlu dilakukan penggantian sistem penerangan jalan umum dengan energi terbarukan di lingkungan Universitas Muhammadiyah Semarang;
b. bahwa untuk mewujudkan hal tersebut, diperlukan kebijakan yang menjadi pedoman dalam pelaksanaan penggantian Penerangan Jalan Umum (PJU) dengan Solar Panel di lingkungan Universitas Muhammadiyah Semarang;
c. bahwa sebagai perwujudannya perlu ditetapkan dengan surat keputusan Rektor.

Mengingat :
1. Undang-Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang-Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi;
3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup;
4 Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi;
5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang;
6. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027

MEMUTUSKAN

Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG KEBIJAKAN PENGGANTIAN PENERANGAN JALAN UMUM (PJU) DENGAN SOLAR PANEL UNIVERSITAS MUHAMMADIYAH SEMARANG

PERTAMA : Menetapkan Kebijakan Penggantian Penerangan Jalan Umum (PJU) dengan Solar Panel di Universitas Muhammadiyah Semarang;

KEDUA : Kebijakan Penggantian Penerangan Jalan Umum (PJU) sebagaimana dalam lampiran Surat Keputusan ini;

KETIGA : Penggantian Penerangan Jalan Umum (PJU) Dengan Solar Panel berada di bawah koordinasi Unit Pelaksana Teknis (UPT) Pengembangan Proyek Universitas;

KEEMPAT : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari ternyata terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya.

Ditetapkan di : Semarang
Pada tanggal : 26 Rabiul Akhir 1446 H
29 Oktober 2024 M

Rektor,

Prof. Dr. Masrukhi, M.Pd.

Salinan disampaikan kepada Yth :
1. Para Wakil Rektor
2. Para Dekan
3. Para Program Studi
4. Para Ka Biro

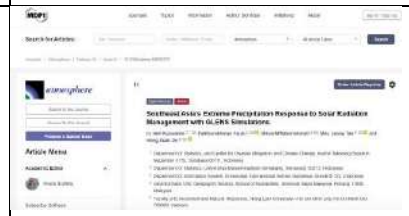
Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Centrak Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

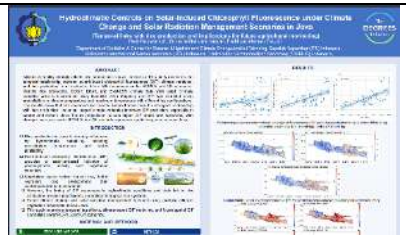
[2] Energy and Climate Change (EC)
[2.14] Impactful university program(s) on climate change (EC.10)

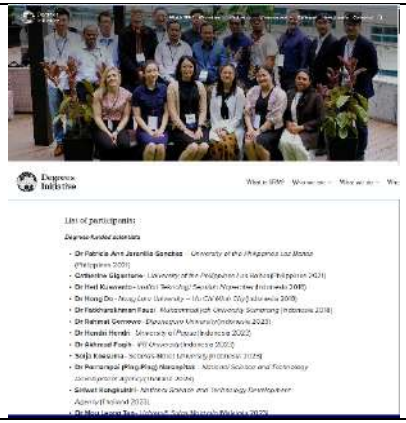
Supporting evidence must include the training materials and a list of participants

No	Programs	Scope (international / regional / national / local / etc)	Total Participants	Photo	URL	Short Description
1	UI GreenMetric Online Course on Sustainability 2021 (September 2021 – January 2022)	International	100 Students		URL https://www.atlantis-press.com/proceedings/lewis-eas-24/126014400	Countries along the equator receive a relatively high level of solar radiation, which is crucial for solar power plants. In this context, Indonesia is well-suited for the implementation of solar power plants. The amount of power generated by a solar power plant is directly related to the intensity of solar radiation that reaches the solar panels. To maximize electricity production, it is essential to design the optimal tilt angle for the solar panel units to be installed on the roof of Rusunawa Putra. This study explores the impact of the solar panel installation's tilt design on the

						power output of a building within a campus setting. The research method involves testing a combination of tilt angles—20°, 30°, and 40°—to determine the most efficient energy production. Daily sunlight data is simulated using PvSyst software. The findings indicate that the most efficient energy production occurs when the solar panels are tilted at a 20° angle relative to the horizontal roof plane. Additionally, connecting more modules in series increases the total voltage, while connecting more modules in parallel enhances the total current.
2	Southeast Asia's Extreme Precipitation Response to Solar Radiation Management with GLENS Simulations	Publication	...		https://www.mdpi.com/2073-4433/16/6/725	This study evaluates the impacts of Solar Radiation Management (SRM) on precipitation-related climate extremes in Southeast Asia. Using simulations from the Geoengineering Large Ensemble (GLENS), we assess spatial anomalies and differences in extreme precipitation indices—number of wet days (RR1), very heavy precipitation days (R20mm), maximum 5-day precipitation (Rx5day), consecutive dry days (CDD), and consecutive wet days (CWD)—relative to historical (1980–2009) and Representative Concentration Pathway 8.5 (RCP8.5) baselines. The results reveal that SRM induces highly heterogeneous precipitation responses across the region. While SRM increases rainfall frequency in parts of Indonesia, it reduces the number of wet days and lengthens dry spells over Vietnam, Thailand, and the Philippines. Spatial variations are also observed in changes to heavy precipitation days and multi-day rainfall events,

						with potential implications for flood and drought risks. These findings highlight the complex trade-offs in hydrological responses under SRM deployment, with important considerations for agriculture, water resource management, and climate adaptation strategies in Southeast Asia.
3	Hydro-climatic extremes in Southeast Asia under SRM	Publication			https://www.degrees.ngo/our-work/projects/indonesia/	Prof. Kuswanto and his team are researching the potential impacts of SRM on the climate in Southeast Asia. The project builds on the pioneering SRM research conducted by the team since 2018 on extreme temperature and precipitation over Indonesia. Their goal is now to understand how SRM could influence rainfall and temperature extremes as well as floods and droughts in the river basins of Bengawan Solo in Indonesia, Kelantan in Malaysia, and Vu Gia-Thu Bon in Vietnam. The project is hosted at the Institut Teknologi Sepuluh Nopember in Surabaya, Indonesia, and features collaborations with researchers from Universiti Sains Malaysia and Nong Lam University in Vietnam.
4	K-Nearest Neighbor (KNN) Method for Weather Data Prediction	Publication			https://jurnalnew.unimus.ac.id/index.php/jodi/article/view/214	The weather tends to change frequently every day, so weather forecasts are made to be used as an early warning if sudden weather changes occur. By forecasting the weather, losses can be minimized and people are alert to carry out outdoor activities. From this problem, the K-Nearest Neighbor (KNN) method was applied. This method is expected to provide accurate and efficient information to obtain weather predictions for existing conditions. The data used is secondary data. After conducting research on

						training data (old data) amounting to 80% and test data (new data) amounting to 20%. The accuracy results from the testing data predictions are 75% with a value of k = 8.
5	PERBANDINGAN METODE NAÏVE BAYES, KNN, DECISION TREE PADA LAPORAN WATER LEVEL JAKARTA	Publication			https://amikjtc.com/jurnal/index.php/jurnal/article/view/175	The purpose of this study is to compare the Naïve Bayes, K-Nearest Neighbor (KNN), and Decision Tree methods. The dataset used in this research consists of water level reports in Jakarta obtained from data.go.id. The evaluation includes measuring the confusion matrix, precision, recall, accuracy, and F-measure, as well as calculating the root mean square error (RMSE) for each method. Based on the results, the Decision Tree method achieved the highest accuracy of 96.56%, indicating that the Decision Tree classification method performs better than Naïve Bayes and KNN.
6	Hydroclimatic Controls on Solar-Induced Chlorophyll Fluorescence under Climate Change and Solar Radiation Management Scenarios in Java	International				Climate variability strongly affects rice production in Java, Indonesia. This study examines the temporal relationship between solar-induced chlorophyll fluorescence (SIF), climate variables, and rice production, and evaluates future SIF responses under RCP4.5 and G4 scenarios. Monthly rice production, GOSIF, ERA5, and BNU-ESM climate data were used. Climate variables were bias-corrected using Quantile Delta Mapping, and SIF was modeled using precipitation, minimum temperature, and maximum temperature with different lag configurations. The results show that SIF observed two months before harvest has the strongest relationship with rice production.

						Including lagged climate variables improves SIF prediction, especially in central and eastern Java. Future projections indicate higher SIF under both scenarios, with stronger increases under RCP4.5 than G4 and heterogeneous spatial responses across Java.
7	Regionalising SRM Research: Southeast Asian Scientists Unite Against Climate Challenges	International			https://degrees.ngo/degrees-holds-workshop-on-regionalising-srm-research-in-southeast-asia/	

Description:

The listed programs and publications highlight various sustainability and climate-related research initiatives. The *UI GreenMetric Online Course on Sustainability 2021* involved 100 international students exploring optimal solar panel tilt designs to enhance energy efficiency in tropical regions like Indonesia. The study *Southeast Asia's Extreme Precipitation Response to Solar Radiation Management (SRM)* analyzed GLENS simulations, revealing diverse precipitation impacts across Southeast Asia, with increased rainfall in Indonesia but longer dry periods in Vietnam, Thailand, and the Philippines. Similarly, *Hydro-climatic Extremes in Southeast Asia under SRM* examined SRM's influence on temperature, rainfall, and flood patterns in river basins across Indonesia, Malaysia, and Vietnam through a regional research collaboration. The publication *K-Nearest Neighbor (KNN) Method for Weather Data Prediction* applied the KNN algorithm for weather forecasting, achieving 75% prediction accuracy, while *Comparison of Naïve Bayes, KNN, and Decision Tree Methods on Jakarta Water Level Reports* found that the Decision Tree method achieved the highest accuracy (96.56%) for classifying water level data, indicating its superiority for environmental prediction tasks.

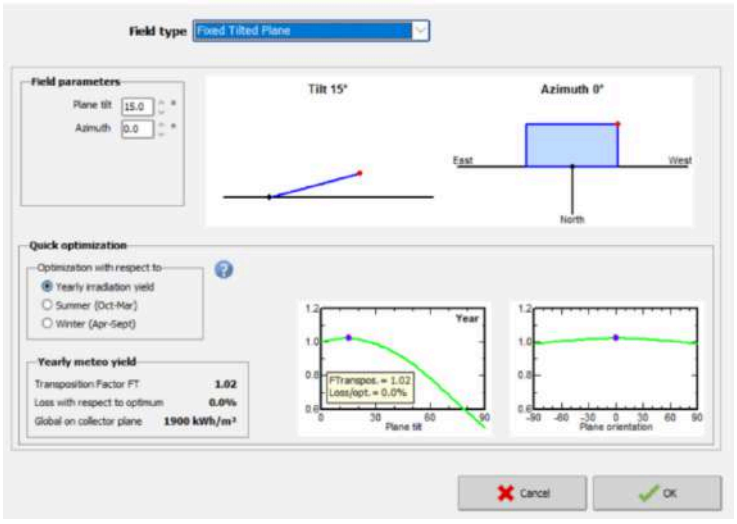
Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.15] Planning, implementation, monitoring and/or evaluation of all programs related to Energy and Climate Change through the utilization of Information and Communication Technology (ICT) (EC.11)

Stage	Activities/Programs	ICT Utilization	Evidence	Timeline	Responsible Team/Department
Planning	Assess potential for solar panel installations	PVSyst mapping, renewable energy simulation software, GLENS software for climate change simulation, GELNS software for climate change simulation	Feasibility studies, site assessment reports	2022-2024	Unit Proyek Pengembangan Universitas
Implementation	Automated Lighting, AC Management, and Centralized Security	Project management lighting, AC, and CCTV	Installation logs, energy generation data	2022-now	Unit Proyek Pengembangan Universitas
Monitoring	IoT and Smart Monitoring, Electrical Sub-metering, and Consumption Logging	Renewable energy and efficiency monitoring systems	Energy production reports, performance analytics	On going	Unit Proyek Pengembangan Universitas







Renewable energy simulation software PVSyst and installation of renewable energy

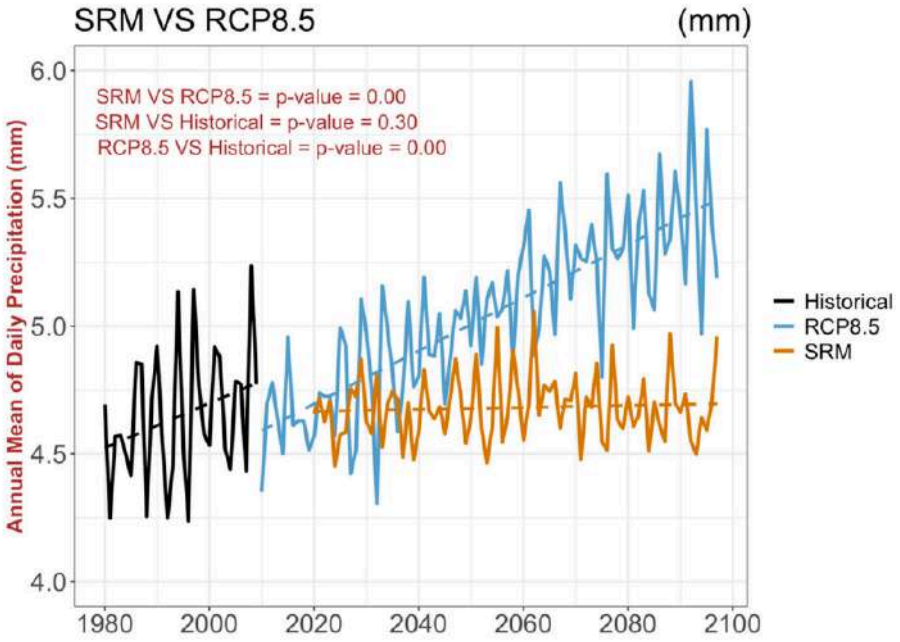
Description:

These systems form part of UNIMUS's long-term strategy to transition toward green energy and reduce greenhouse gas emissions.

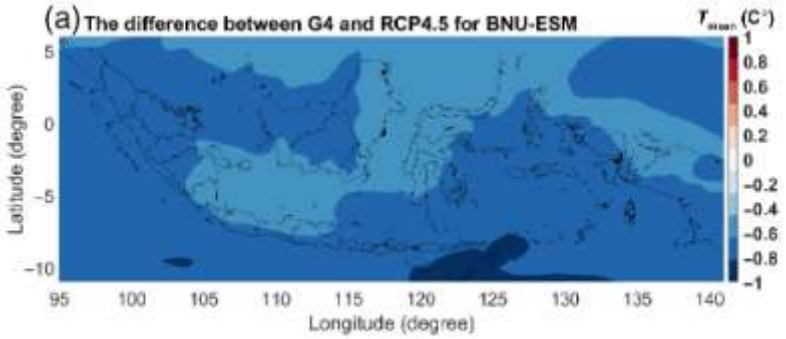
1. Biodiesel Power Generation
   UNIMUS operates two biodiesel-ready generator systems (CAT and MG Diesel Power) located in strategic facilities such as the Integrated Health Laboratory (Labkes), Unimus Medical Center (UMC), and the Data Center. Based on operational data, assuming an average 30 running hours per month, the generators produce approximately 45,840 kWh/month. The transition from conventional diesel to biodiesel (B20–B30) significantly reduces fossil fuel dependency and supports the national renewable energy policy.
2. Solar Power Systems UNIMUS operates two types of solar installations:
   - Solar-Powered Street Lighting (PJU Solar Panel): 25 units × 200 Wp = 5 kWp, producing roughly 675 kWh/month (assuming 4.5 peak sun hours/day).
   - Rooftop Solar at Vocational Training Center (BLK): 2 kWp system generating 270 kWh/month. The combined solar production equals 945 kWh/month, equivalent to ~1% of total monthly electricity consumption.
3. As part of the Clean Biomass Program, UNIMUS has introduced biomass briquette stoves in campus canteens. The briquettes, made from agricultural residues such as coconut shells and rice husks, are used for daily cooking. This initiative serves as a pilot project to reduce LPG consumption and promote renewable biomass energy utilization.

Here are the details of ICT utilization across these programs:

1. Planning with Simulation and Data Analysis
   ICT is used in the planning and research phases to model scenarios and predict outcomes related to climate and energy.
   Renewable Energy Simulation: Researchers at UNIMUS use PvSyst software to simulate daily sunlight data. This is done to design and determine the optimal tilt angle for solar panels to maximize energy production at the Rusunawa Putra (men's dormitory).
   Climate Modeling: Research at the university uses GLENS Simulations (Geoengineering Large Ensemble) to evaluate the impact of Solar Radiation Management (SRM).



Simulation Daily Precipitation with GLENS



Simulation with GELNS

2. Implementation on Smart Building and Automation
   ICT is at the core of the Smart Building concept implementation at UNIMUS, which covers 78.28% of the total campus building area. This system actively manages energy consumption through:

   Building Automation Systems: Automated Lighting: LED lights are equipped with motion sensors and illumination sensors, as well as light detection, to minimize energy waste.
   AC Management: Air conditioning systems are managed with timers and inverter-based operations.
   Centralized Security: CCTV and digital access control are integrated through a centralized network for security and monitoring.

3. Monitoring and Evaluation: IoT and Sub-metering
   UNIMUS uses ICT extensively to monitor and evaluate the effectiveness of its energy efficiency programs.

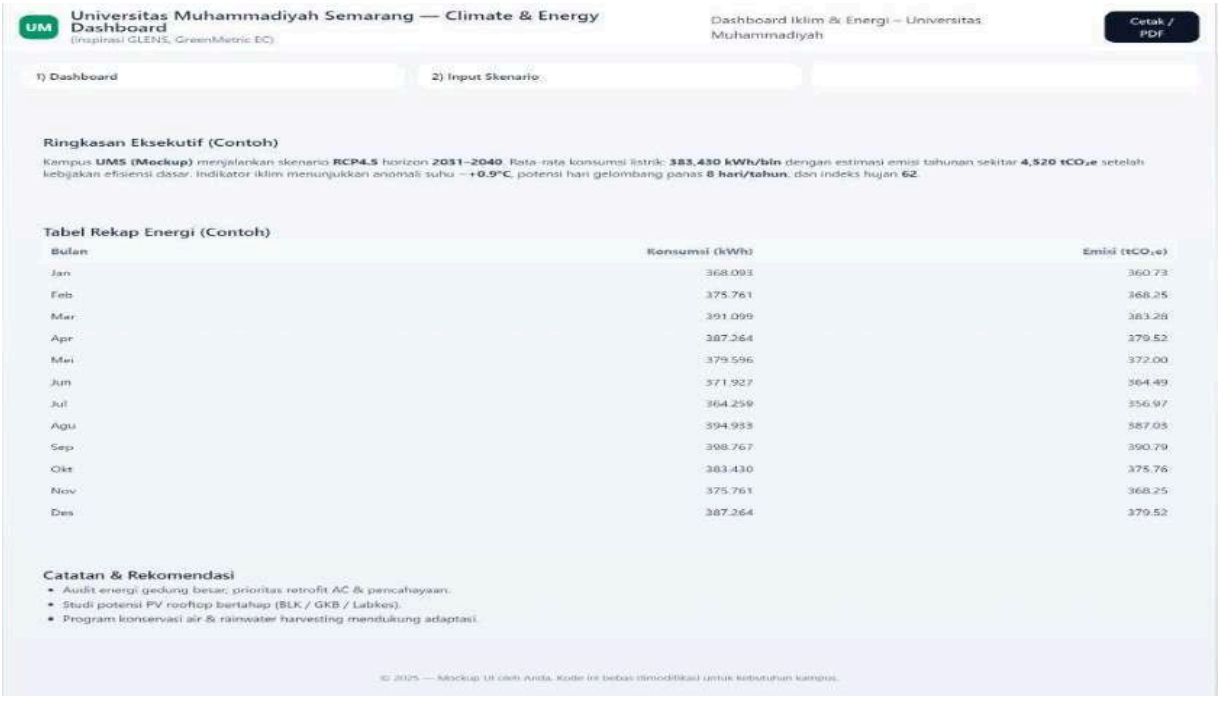


Electrical Sub Metering PLN and other sources from solar cell

IoT and Smart Monitoring: The university has implemented an "IoT-based energy monitoring and automation system". This innovative program is specifically implemented in the FKG-FKM and UMC buildings as "IoT / Smart Energy Monitoring".

Electrical Sub-metering: Electrical distribution panels and sub-metering systems are installed in 10 main campus buildings. This ICT system is crucial for monitoring and controlling energy usage efficiently. Providing the necessary data to support energy audits. The ICT system can monitoring energy from PLN and energy from other sources like solar panels.

Consumption Logging: UNIMUS continuously monitors and records electricity consumption, with data visualized in monthly consumption graphs.



Universitas Muhammadiyah Semarang — Climate & Energy Dashboard

(inspirasi GLENS, GreenMetric EC)

Dashboard Iklim & Energi – Universitas Muhammadiyah

Cetak / PDF

1) Dashboard | 2) Input Skenario

Ringkasan Eksekutif (Contoh)

Kampus **UMS (Mockup)** menjalankan skenario **RCP4.5** horizon **2031–2040**. Rata-rata konsumsi listrik: **383,430 kWh/bln** dengan estimasi emisi tahunan sekitar **4,520 tCO₂e** setelah kebijakan efisiensi dasar. Indikator iklim menunjukkan anomali suhu ~ **+0.9°C**, potensi hari gelombang panas **8 hari/tahun**, dan indeks hujan **62**.

Tabel Rekap Energi (Contoh)

Bulan	Konsumsi (kWh)	Emisi (tCO₂e)
Jan	368.093	360.73
Feb	375.761	368.25
Mar	391.099	383.28
Apr	387.264	379.52
Mei	379.596	372.00
Jun	371.927	364.49
Jul	364.259	356.97
Agu	394.933	387.03
Sep	398.767	390.79
Okt	383.430	375.76
Nov	375.761	368.25
Des	387.264	379.52

Catatan & Rekomendasi

- Audit energi gedung besar; prioritas retrofit AC & pencahayaan.
- Studi potensi PV rooftop bertahap (BLK / GKB / Labkes).
- Program konservasi air & rainwater harvesting mendukung adaptasi.

© 2025 — Mockup UI oleh Anda. Kode ini bebas dimodifikasi untuk kebutuhan kampus.

Consumption Logging kWh and Emision

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[2] Energy and Climate Change (EC)

[2.16] Impact of Energy and Climate Change programs in supporting the Sustainable Development Goals (SDGs)







Solar Power Systems

Description:

The university has undertaken a wide range of energy and climate-related programs that contribute significantly to the achievement of the **17 Sustainable Development Goals (SDGs)**. These initiatives demonstrate a strong commitment to reducing carbon emissions, enhancing energy efficiency, and fostering climate resilience. These efforts directly support **17 SDG's** contribute direct and indirectly, including:

SDG 1: No Poverty (Indirect Impact) -- UNIMUS's EC programs indirectly support SDG 1 through initiatives focused on skills development. The university operates a Vocational Training Center (BLK), which is itself powered by a rooftop solar panel system. By providing vocational training, the university equips individuals with practical, in-demand skills, which is a fundamental pathway to securing employment and alleviating poverty.

SDG 2: Zero Hunger (Indirect Impact) -- A connection to SDG 2 can be seen in the university's Clean Biomass Program. UNIMUS has introduced biomass briquette stoves for use in campus canteens. These briquettes are notable for being "made from agricultural residues such as coconut shells and rice husks". This initiative supports a more sustainable food system (canteen operations) by creating clean energy from agricultural waste products, promoting a circular economy within the food-energy nexus.

SDG 3: Good Health and Well-being -- The *Green Building* initiatives directly foster a healthier campus environment for students and staff. A key element is the focus on Indoor Environmental Quality, which is enhanced through natural ventilation systems designed to promote healthy air circulation and improve thermal comfort. In key buildings, this is further supported by the installation of "Carbon Dioxide Monitoring and Control" systems.

SDG 4: Quality Education -- The EC programs are integrated into the university's core educational mission. The campus itself functions as a living laboratory for sustainable practices. UNIMUS actively conducts community training and awareness campaigns focused on renewable energy and climate action. This practical application is backed by academic research, with faculty and students publishing studies on topics such as *Solar Radiation Management (SRM)*.

SDG 6: Clean Water and Sanitation -- Water conservation is a key part of the university's *Green Building* and *GHG Reduction* programs. UNIMUS operates an on-site Wastewater Treatment Installation (IPAL). This facility processes and reuses greywater for non-potable uses such as irrigation, which simultaneously conserves water and contributes to the university's Scope 3 emissions reduction strategy.

SDG 7: Affordable and Clean Energy -- This goal is central to UNIMUS's EC programs. The university actively supports this goal by generating 12.07% of its energy from on-campus renewable sources. This production is achieved through two biodiesel generators (B20-B30) that produce approximately 45,840 kWh/month and solar power systems, including 25 solar-powered street lights(PJU) and a rooftop installation on the Vocational Training Center (BLK). This is complemented by a strong focus on energy efficiency, with an average of 52% of campus appliances being energy-efficient. Key achievements include a 100% transition to 18,752 LED lamps and the gradual adoption of inverter-based AC units.

SDG 8: Decent Work and Economic Growth (Indirect Impact) -- The EC programs directly contribute to SDG 8 by fostering "green jobs" and supporting an efficient, modern economy. The implementation, management, and maintenance of advanced infrastructure *Smart Building* coverage, Green Building elements, solar panel installations, and biodiesel generators —create a clear demand for a skilled workforce in engineering, technology, and energy management. The Vocational Training Center (BLK) further supports this by developing a competent workforce

SDG 9: Industry, Innovation, and Infrastructure -- The EC programs are built on a foundation of technological innovation. The university has developed smart infrastructure, including IoT-based energy monitoring systems, automated lighting and AC controls, and the development of a *smart microgrid*. This commitment to innovation extends to research and development, where faculty use PvSyst software to simulate and optimize solar panel designs and GLENS simulations to model climate change impacts.

SDG 10: Reduced Inequalities (Indirect Impact) -- UNIMUS's campus management initiatives support SDG 10 by helping reduce inequalities in accessibility and mobility. The provision of on-campus transportation, such as the "Ride Share" electric golf carts, and ensuring the campus is connected to public transport, like the "Trans Semarang Feeder F2B", helps ensure that all campus facilities are accessible to every member of the community, including those with potential mobility limitations.

SDG 11: Sustainable Cities and Communities -- UNIMUS contributes to this goal by creating a sustainable "micro-city" environment on its campus. A major component is the *Smart Building* implementation. This is supported by *Green Building* elements integrated into all facilities, such as the use of large windows to maximize natural daylight and building designs that promote natural ventilation to reduce reliance on air conditioning. Sustainable transport is also promoted through a campus layout that supports pedestrian access and the use of electric golf carts for mobility.

SDG 12: Responsible Consumption and Production -- The university actively promotes sustainable consumption and production patterns. This is demonstrated through its sustainable procurement policies, such as the campus-wide replacement of conventional bulbs with LEDs and the prioritization of energy-efficient inverter AC units. Furthermore, the institutional switch to cleaner fuels, specifically B20-B30 biodiesel for its generators, represents a significant move toward more sustainable energy consumption.

SDG 13: Climate Action This is the primary objective of the EC initiatives. UNIMUS addresses this goal by first calculating its total carbon footprint, which amounts to 4,141.17 metric tons. The university then implements systematic reduction programs across all three emission scopes. Scope 1 emissions are reduced by substituting conventional diesel with cleaner biodiesel in its generators. Scope 2 emissions are tackled by reducing dependence on purchased electricity through on-site solar power generation and campus-wide efficiency measures like the LED retrofitting. Furthermore, UNIMUS enhances climate resilience by expanding green open spaces to increase carbon absorption and mitigate the urban heat island effect.

SDG 14: Life Below Water (Indirect Impact) -- The EC programs have a direct and positive impact on SDG 14. The university operates an on-site Wastewater Treatment Installation (IPAL). This system processes wastewater on campus and allows for the reuse of greywater. By treating wastewater before it is discharged, UNIMUS

significantly reduces the volume of pollutants entering local rivers, thereby preventing land-based pollution from reaching and harming marine ecosystems.

SDG 15: Life on Land (Indirect Impact) -- The EC programs are highly relevant to SDG 15. One of the university's key innovative initiatives is the "Climate Resilience and Green Campus Program". This program is explicitly focused on the continuous expansion of "green open spaces and vegetation coverage" across the campus. This action directly contributes to enhancing carbon absorption, mitigating urban heat island effects, and promoting biodiversity within the campus environment.

SDG 16: Peace, Justice, and Strong Institutions (Indirect Impact) -- The entire EC reporting effort is a testament to SDG 16. By participating in the UI GreenMetric Questionnaire and committing to transparent data reporting, UNIMUS demonstrates its role as an effective, accountable, and strong institution. Systemic actions like "monitoring and recording electricity consumption", calculating the "Total Carbon Footprint", and implementing "IoT-based energy monitoring" and "sub-metering systems" are all clear evidence of robust institutional governance and integrity.

SDG 17: Partnerships for the Goals -- UNIMUS actively pursues SDG 17 by forging multi-sectoral and international partnerships to achieve its sustainability goals. The university is engaged in a "Collaboration in Green Energy" with Gading Kencana SDN Berhad, a private sector company from Malaysia. Its researchers also collaborate internationally on projects, such as a study on Solar Radiation Management (SRM) involving partners from Institut Teknologi Sepuluh Nopember, Universiti Sains Malaysia, and Nong Lam University in Vietnam.

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.1] 3R (Reduce, Reuse and Recycle) Program for University Waste



3R Programm

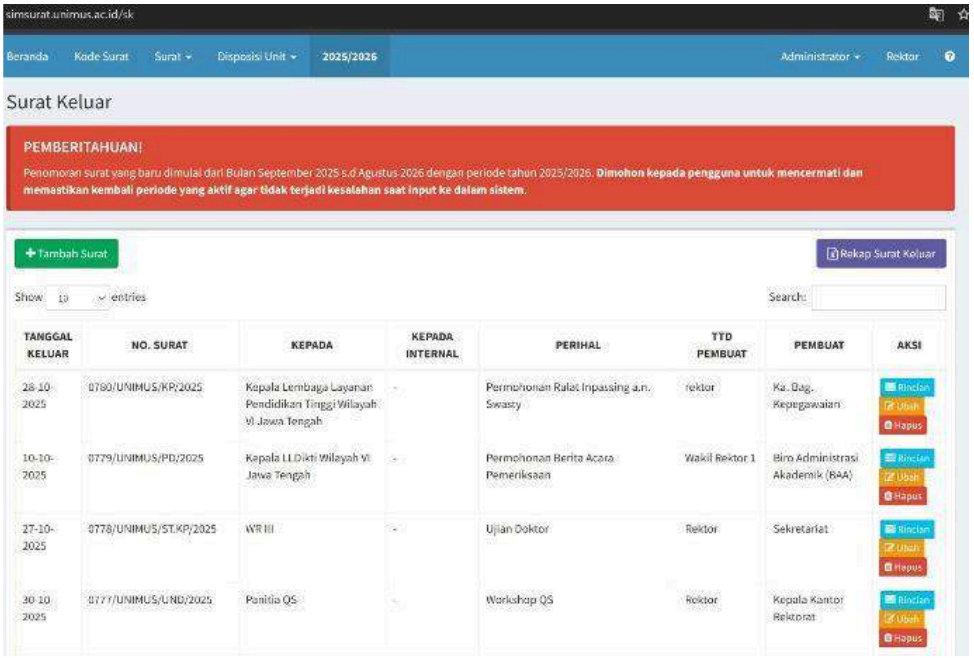

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49M 440608 9223770
Kedungmundu
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Jawa Tengah


25 Jun 2026 15.43.38
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Kota Semarang
Jawa Tengah



Waste Sorting Programm at the Campuss





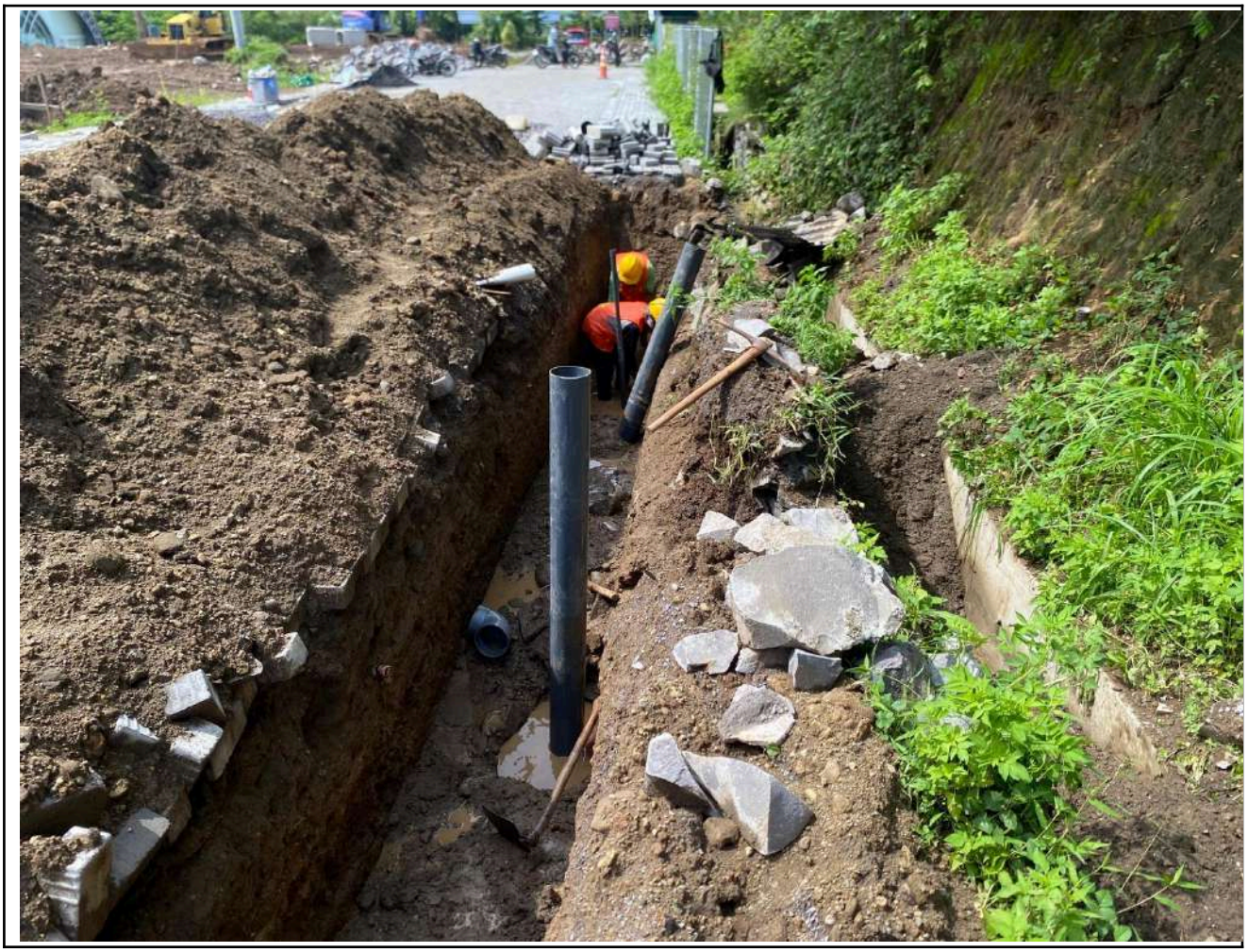
Reduce Papperless Administration





Reduce Programm







Organic Waste Processing







In Organik Waste Processing

3R Program for Waste (University of Muhammadiyah Semarang (UNIMUS))

Description:

(*Please describe the 3R program on your campus. The following is an example of the description. You can describe more related items if needed*.)

University of Muhammadiyah Semarang (UNIMUS) has implemented the 3R program (Reduce, Reuse, and Recycle) as part of its commitment to becoming a green and sustainable campus. This program is carried out in an integrated manner by the Business Assurance and Management Unit (UPPU) with active support from faculties, students, and educational staff.

1. **Reduce (Reduce)**

   UNIMUS strives to reduce waste through a **"paperless administration"** policy and the use of digital documents in the academic system (SIM-SURAT), e-office, e-learning. In addition, the campus implements a policy of restricting the use of plastic in faculties, laboratories, and canteens. **"Zero Plastic Campus"** socialization activities are routinely carried out by students and lecturers as part of the Healthy Campus Movement.

   Link policy Zero Waste:

   https://drive.google.com/file/d/1-FqgLc3errbKogcxiLPGEmIusEGLP6m6/view?usp=sharing

2. **Reuse**

   Office supplies and equipment that are still usable, such as folders, stationery, and used cardboard boxes, are collected for reuse in other work units. UNIMUS also manages an internal waste bank under the coordination of UPPU, where plastic bottles, paper, and cardboard are sorted for reuse or distributed to recycling partners. Additionally, creative reuse activities are carried out by students through recycling competitions and the creation of art products from inorganic waste.

3. **Recycle**

   Organic waste from the cafeteria and green areas is collected and processed into compost using simple composting equipment in the campus garden. The compost produced is reused to fertilize plants in the university's green areas. Meanwhile, inorganic waste such as paper and plastic is sent to recycling partners in collaboration with the Semarang City Environment Agency.

4. **Digital Support and Monitoring**

   UNIMUS has utilized an ICT (Information and Communication Technology) based system to support the implementation of the 3R program. Through internal applications and digital reporting systems, each faculty can record waste volume, waste types, and reduction progress. The data is integrated into a campus environmental monitoring dashboard managed by UPPU.

   http://192.168.111.107/wasteunimus/index.php?page=input

5. **Education and Awareness**

   The 3R program is also part of **Environmental Education and Environmental Health and Safety activities** for students and the academic community. Activities such as waste management training, recycling innovation competitions, and regular green action activities are held annually.

   Link video sosialisazation:

   https://drive.google.com/file/d/199uQBJT-EDuLqJHlEfxgBuGGxFAo6yE6/view?usp=drive_link

6. **Partnership and Community Engagemnt**

   UNIMUS collaborates with local environmental communities and city governments in waste management and public education activities. Community Service (PkM) activities are also focused on 3R education around the campus and Muhammadiyah affiliated schools.

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.2] Total volume of paper and plastic produced this year

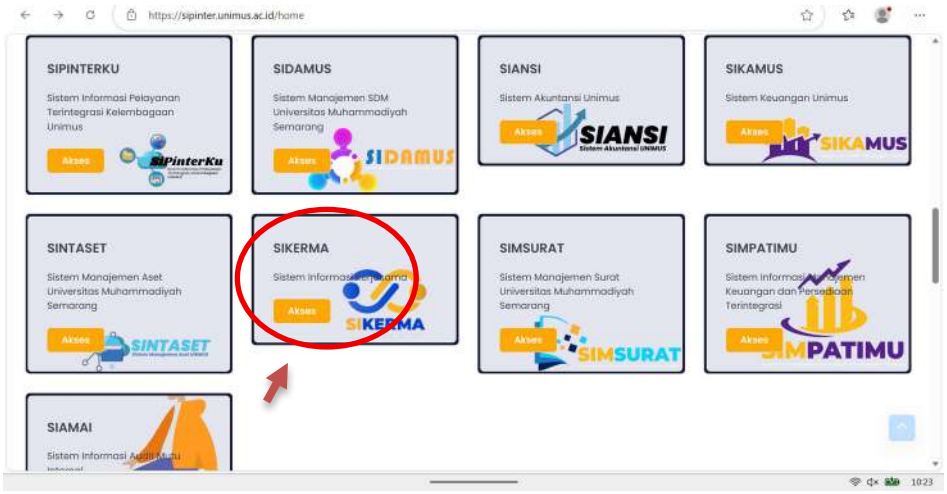
Type of waste	amount (ton)		
	Produced		Reduced
	Last year (2025)	This Year (2026)	
Plastic	63.2	60	3.2
PET (Polyethylene Terephthalate) Bottles: Mineral water bottles, juice bottles, beverage packaging	11	10.7	0.3
HDPE (High-Density Polyethylene) Plastic: Refillable water gallons, soap bottles	9	8.3	0.7
LDPE (Low-Density Polyethylene) plastic: Clear plastic bags, plastic food wrap	16.5	16	0.5
PP (Polypropylene) Plastic: Food containers, plastic drinking cups, straws	13.7	13	0.7
PS (Polystyrene) Plastic: Styrofoam, plastic spoons, snack food containers, coffee sachets.	13	12	1.0
Paper	81	69.2	11.8
HVS paper: Administrative documents (invitation letters), student reports, exam reports.	23	18	5
Cardboard/Duplex Paper: Stationery packaging, printer cardboard, archive folders	18	15.5	2.5
Brochure Paper: Magazines, promotional leaflets, campus activity information	14	12.7	1.3
Laminated or Glossy Paper: Magazine covers, event posters, banners	12	10	2
Tissue Paper: Toilet Tissue, Lecturer's Room, Canteen	14	13	1

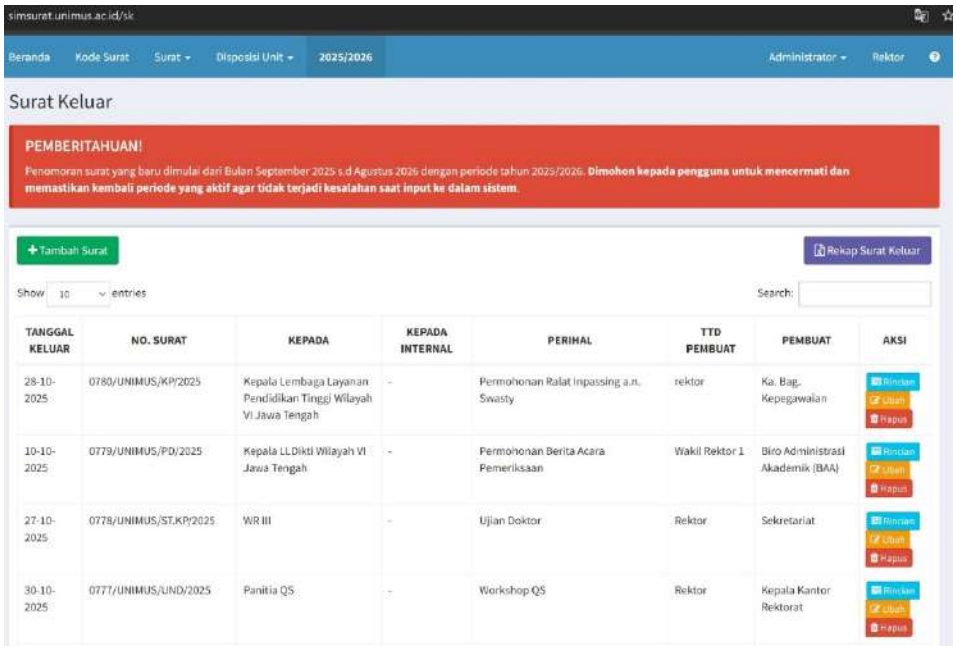
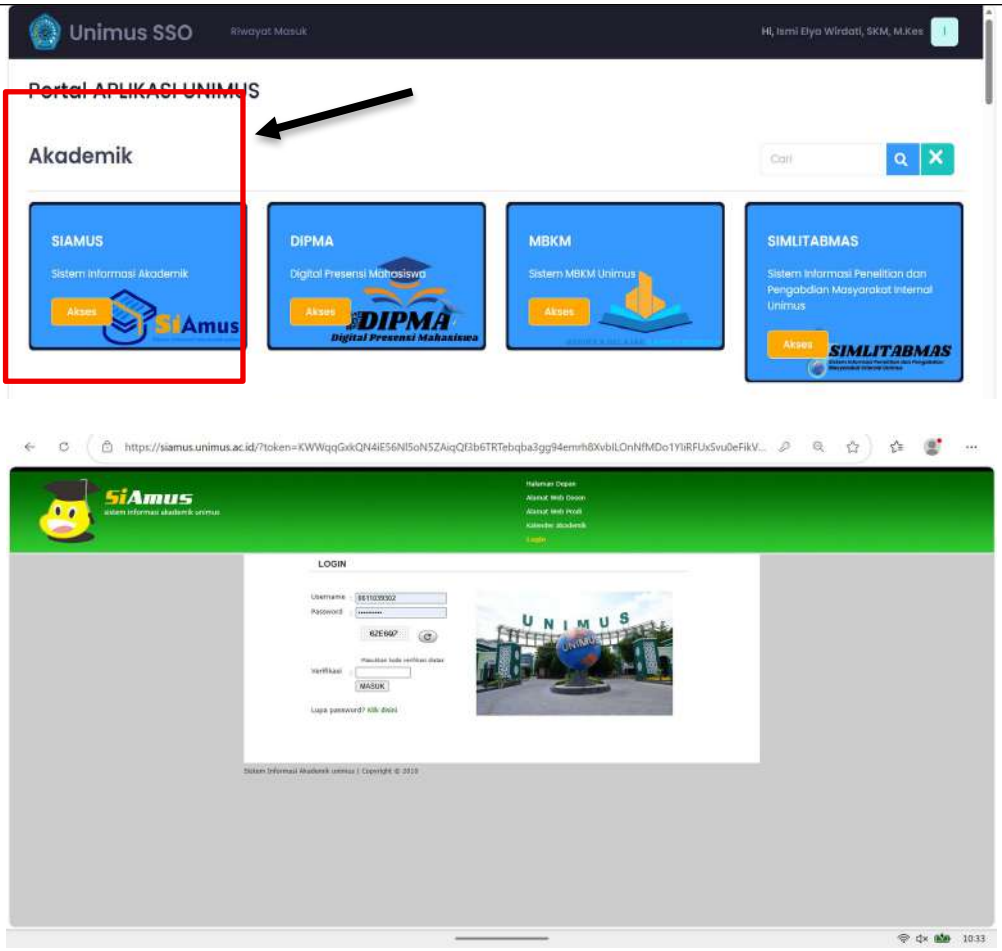
Description:
(*Please describe total volume of paper and plastic produced this year on your campus. The following is an example of the description. You can describe more related items if needed*.)

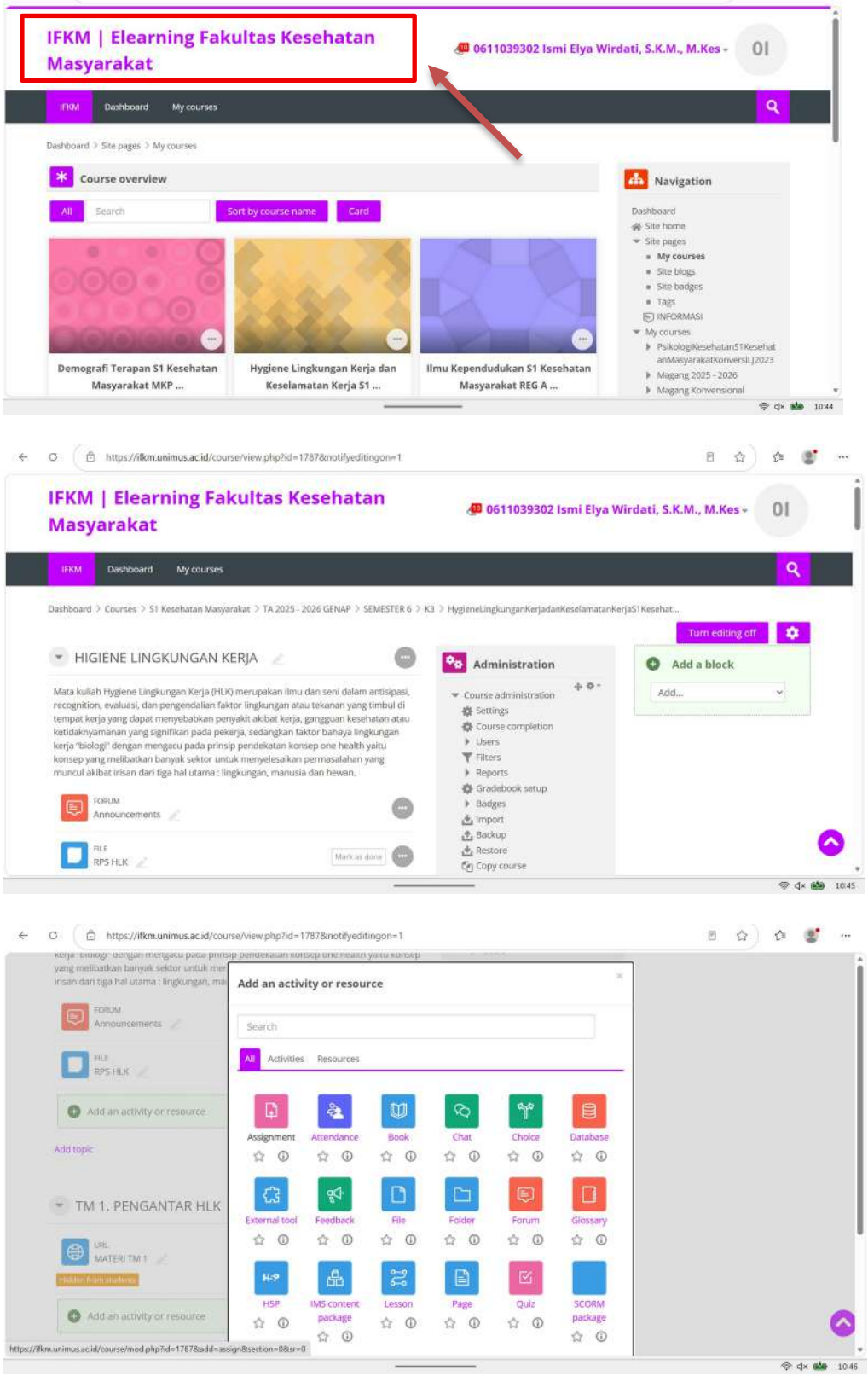
Based on the waste audit conducted this year, Universitas Muhammadiyah Semarang (UNIMUS) produced a total of **60 tons of plastic waste** and **69.2 tons of paper waste**. This amount reflects the continuous effort of the university to reduce waste generation through its **3R (Reduce, Reuse, Recycle)** program and ICT-based waste management initiatives.

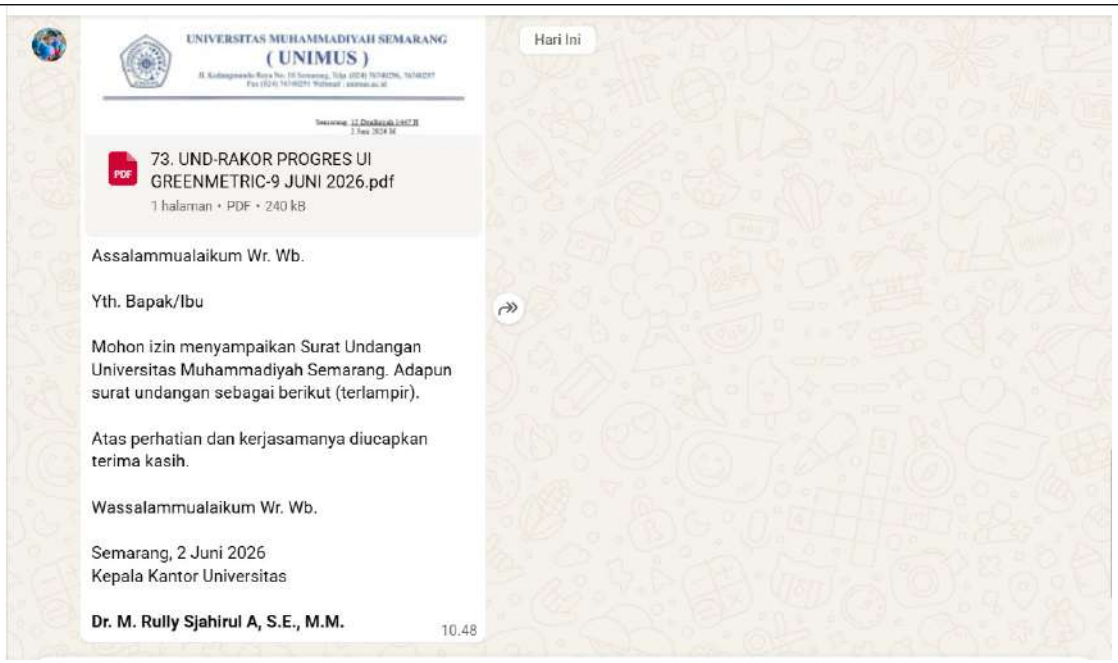
Plastic Waste Interpretation:
The total plastic waste generated this year (2026) is **60 tons**, dominated by food and beverage packaging materials. The largest contributor is **LDPE (Low-Density Polyethylene) plastic (16 tons)** mostly from canteen food wrappers and clear plastic bags and **PP plastic (13 tons)** used for disposable food containers and drinking cups and **PS bottles (12 tons)** from bottled beverages. This is followed **PET (Polyethylene Terephthalate) Bottles (10.7 tons)** from mineral water bottles, juice bottles, beverage packaging, **HDPE (High-Density Polyethylene) Plastic (8.3 tons) such as** refillable water gallons, soap bottles**.**

Paper Waste Interpretation:
Paper waste generated this year (2026) reached **69.2 tons**, with the majority coming from **HVS paper (18 tons)** used for administrative documents, examinations, and reports. **Cardboard and duplex paper (15.5 tons)** originated from office packaging materials and archived files, while **brochure and leaflet paper (12.7 tons)** came from promotional and information materials. **Laminated or glossy paper (10 tons)** was generated from posters, banners, and publications, and **tissue paper (13 tons)** was used in sanitation facilities across campus.

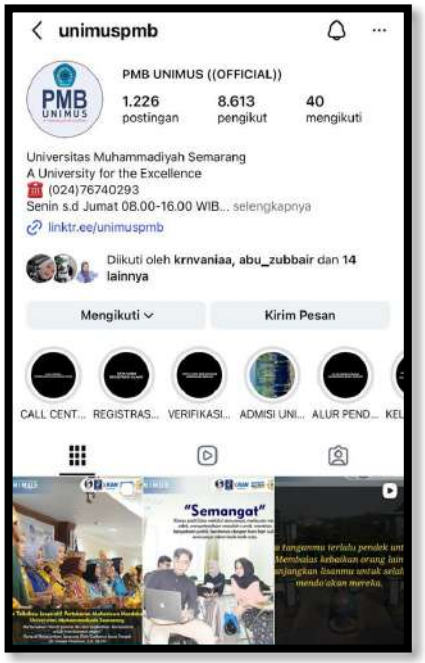
No	Program	Evidence
1	E-office / electronic correspondence:	 

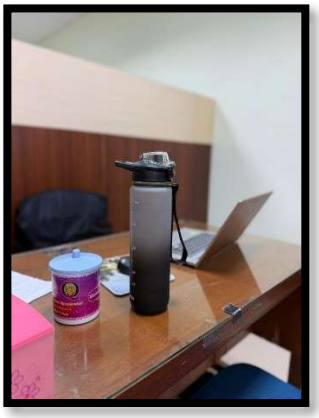
		 E OFFICE ELECTRONIC
2	SIAMUS for academic services	 SIAMUS System

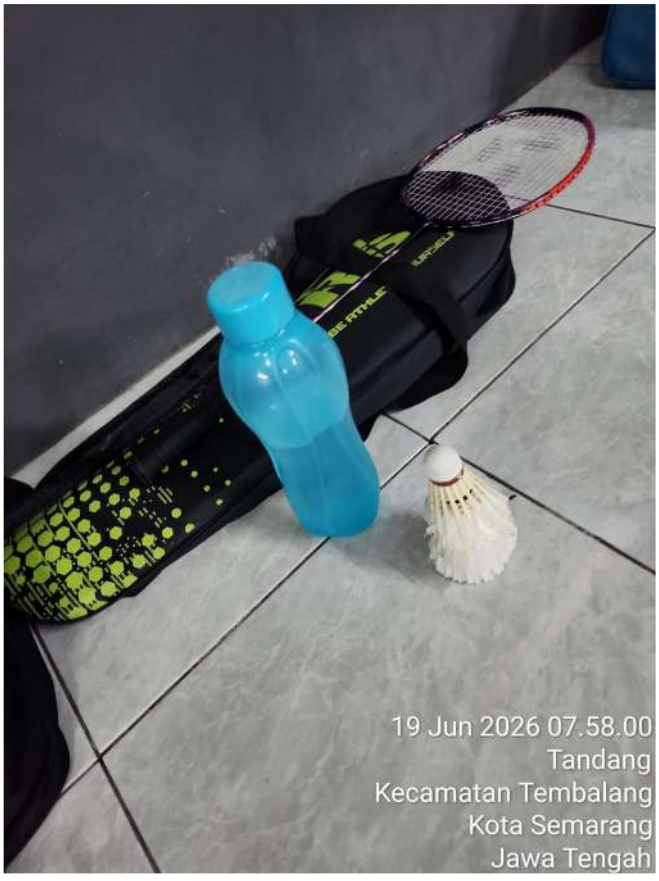
3	E-learning for course materials and assignments:	 E-Learning Course

4	Reducing printed meeting documents	 Meet Announcement
5	Electronic signature:	 Barcode Signature

6	Reducing printed brochures to digital publications	 https://unimus.ac.id/ Website  https://pmb.unimus.ac.id/ Website

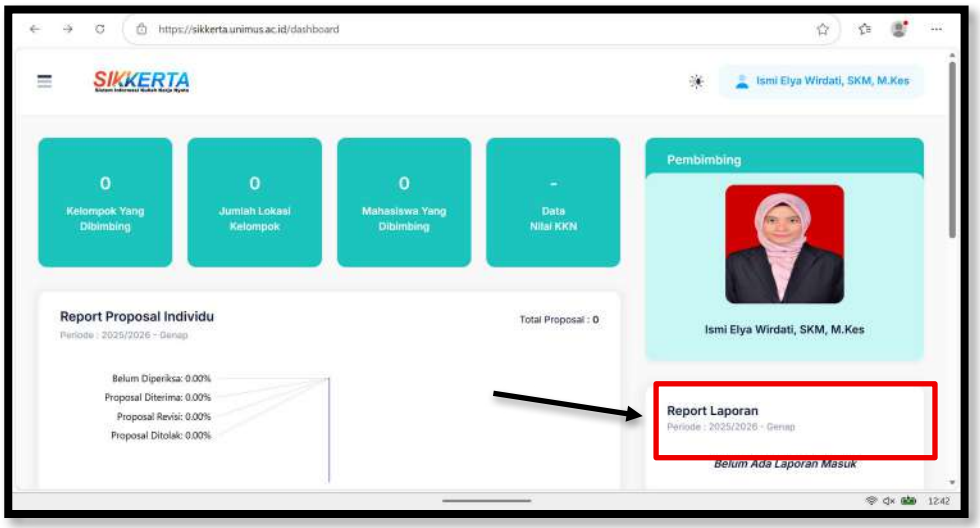
		  Unimus Social Media (Instagram)
7	Zero Single-Use Plastic Campaign	 KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Nomor : 610/UNIMUS/SK.JG/2024 tentang PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG DENGAN RAHMAT ALLAH SUBHANAHU WA TA'ALA REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Menimbang : a. bahwa semakin banyak dan meluasnya penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun perlu dibatasi dalam rangka kesehatan manusia dan perlindungan lingkungan hidup; b. bahwa cukup banyak kantin/warung/rumah makan di lingkungan Universitas Muhammadiyah Semarang yang masih menggunakan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; c. bahwa sebagai "Kampus Hijau" Universitas Muhammadiyah Semarang diharapkan membatasi penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; d. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a, huruf b, dan huruf c, perlu menetapkan Keputusan Rektor Universitas Muhammadiyah Semarang tentang Pembatasan Kemasan Makanan dan Minuman yang mengandung Bahan Berbahaya dan Beracun (B3) di Lingkungan Universitas Muhammadiyah Semarang Mengingat : 1. Undang-Undang Republik Indonesia Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional; 2. Undang-Undang Republik Indonesia Nomor 17 Tahun 2023 tentang Kesehatan; 3. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi; 4. Peraturan Pemerintah Nomor: 19 Tahun 2005 tentang Standar Nasional Pendidikan; 5. Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup; 6. Kepatusan Mendikbud Nomor: 139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang; 7. Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 6 Tahun 2021 Tentang Tata Cara dan Persyaratan Pengelolaan Limbah Bahan Berbahaya dan Beracun; 8. Kepatusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027; MEMUTUSKAN: Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG; KESATU : Mewujudkan pembatasan penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun di lingkungan Universitas Muhammadiyah Semarang; KEDUA : Mendorong penggunaan kemasan makanan dan minuman yang mengandung bahan yang ramah lingkungan seperti daun untuk pembungkus makanan, kardus, boks, dan gelas plastik yang *eco-friendly* serta mengurangi penggunaan bahan kemasan yang mengganggu kesehatan manusia dan lingkungan; KETIGA : Mendorong kegiatan daur ulang kemasan makanan dan minuman; KEEMPAT : Mendorong melakukan sosialisasi bahan kemasan yang ramah lingkungan kepada para penjual makanan dan minuman di lingkungan Universitas Muhammadiyah Semarang; Rule Zero Single Use Plastic

8	Use of tumblers for students/ lecturers/ employees:	  
9	Provision of water refill stations	 Student filling a tumbler

10	Restricting single-use plastic bottles during campus activities:	  Sport Tumbler
11	Sorting plastic	

	and paper waste	 Trash bins categorized by type

12	Collaboration with waste banks/recycling partners:	 Kota Semarang **Reverse Vending Machine Ubah Sampah Plastik Jadi Rupiah Makin Mudah, Komitmen Menjaga Lingkungan** Fista Novianti, Suara Merdeka – Selasa, 10 December 2024 | 17:00 WIB Universitas Muhammadiyah Semarang (Unimus) mendapatkan Reverse Vending Machine (RVM) dari PT Bank Syariah Indonesia Tbk (BSI), beberapa lama ini. (suaramerdeka.com/Fista Novianti) **SEMARANG, suaramerdeka.com** – Sampah bukan lagi barang bekas tidak bernilai. Dengan reverse vending machine, siapa saja bisa mengubah sampah menjadi pundi uang sembari menjaga bumi agar tetap layak ditinggali hingga waktu yang lama.

		 Collaboration waste with bank Source : [UNIMUS MOU BSI MACCHINE BOTOL - Google Search]
13	Digitizing academic and administrative reports	 Digital academic and administration

Evidence(s)
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.3] Total volume of paper and plastic produced last year

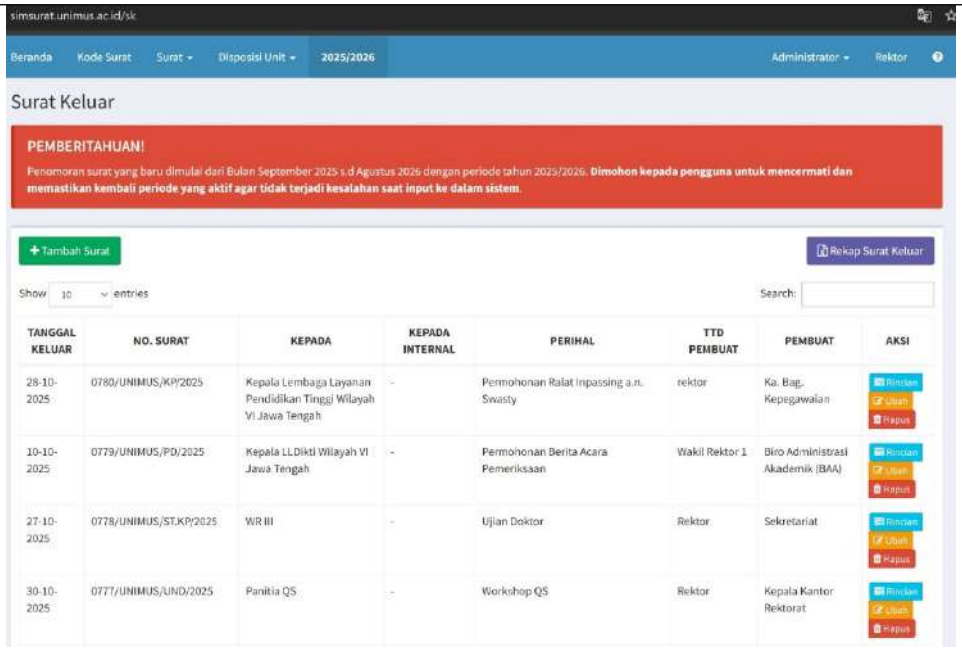
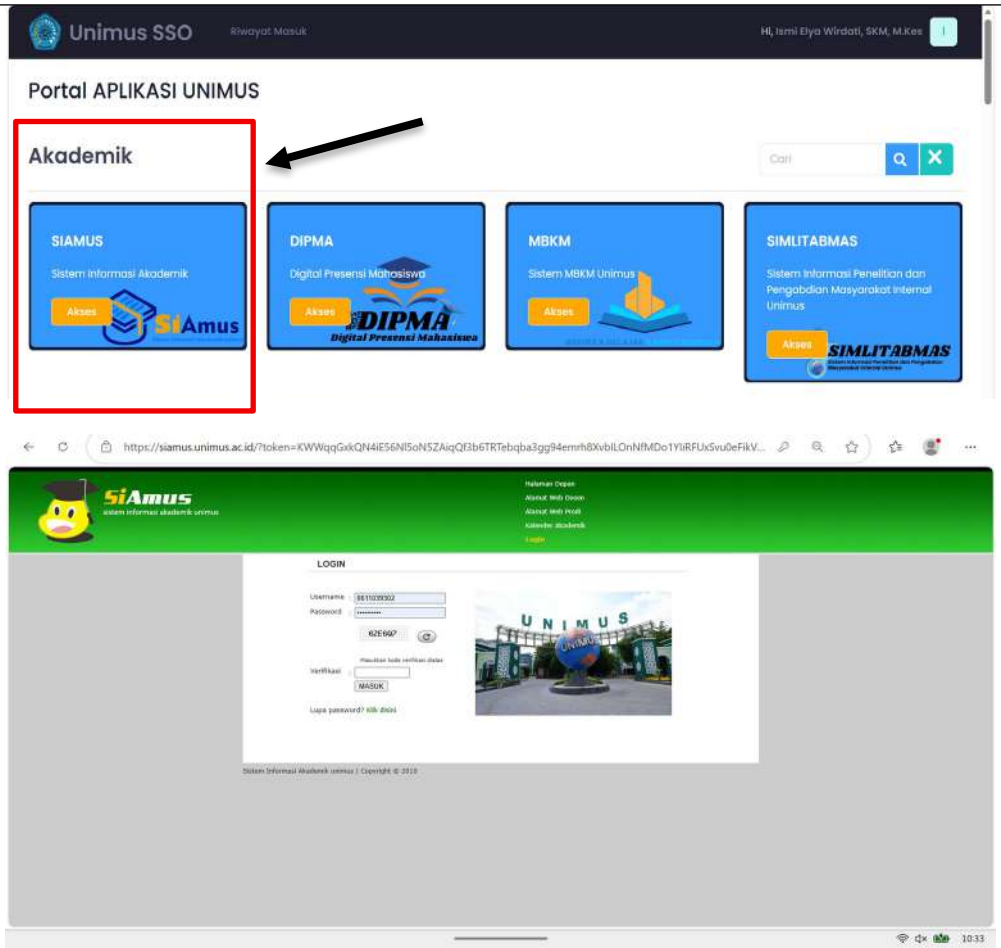
Type of waste	amount (ton)		
	Produced		Reduced
	Last year (2025)	This Year (2026)	
Plastic	63.2	60	3.2
PET (Polyethylene Terephthalate) Bottles: Mineral water bottles, juice bottles, beverage packaging	11	10.7	0.3
HDPE (High-Density Polyethylene) Plastic: Refillable water gallons, soap bottles	9	8.3	0.7
LDPE (Low-Density Polyethylene) plastic: Clear plastic bags, plastic food wrap	16.5	16	0.5
PP (Polypropylene) Plastic: Food containers, plastic drinking cups, straws	13.7	13	0.7
PS (Polystyrene) Plastic: Styrofoam, plastic spoons, snack food containers, coffee sachets.	13	12	1.0
Paper	81	69.2	11.8
HVS paper: Administrative documents (invitation letters), student reports, exam reports.	23	18	5
Cardboard/Duplex Paper: Stationery packaging, printer cardboard, archive folders	18	15.5	2.5
Brochure Paper: Magazines, promotional leaflets, campus activity information	14	12.7	1.3
Laminated or Glossy Paper: Magazine covers, event posters, banners	12	10	2
Tissue Paper: Toilet Tissue, Lecturer's Room, Canteen	14	13	1

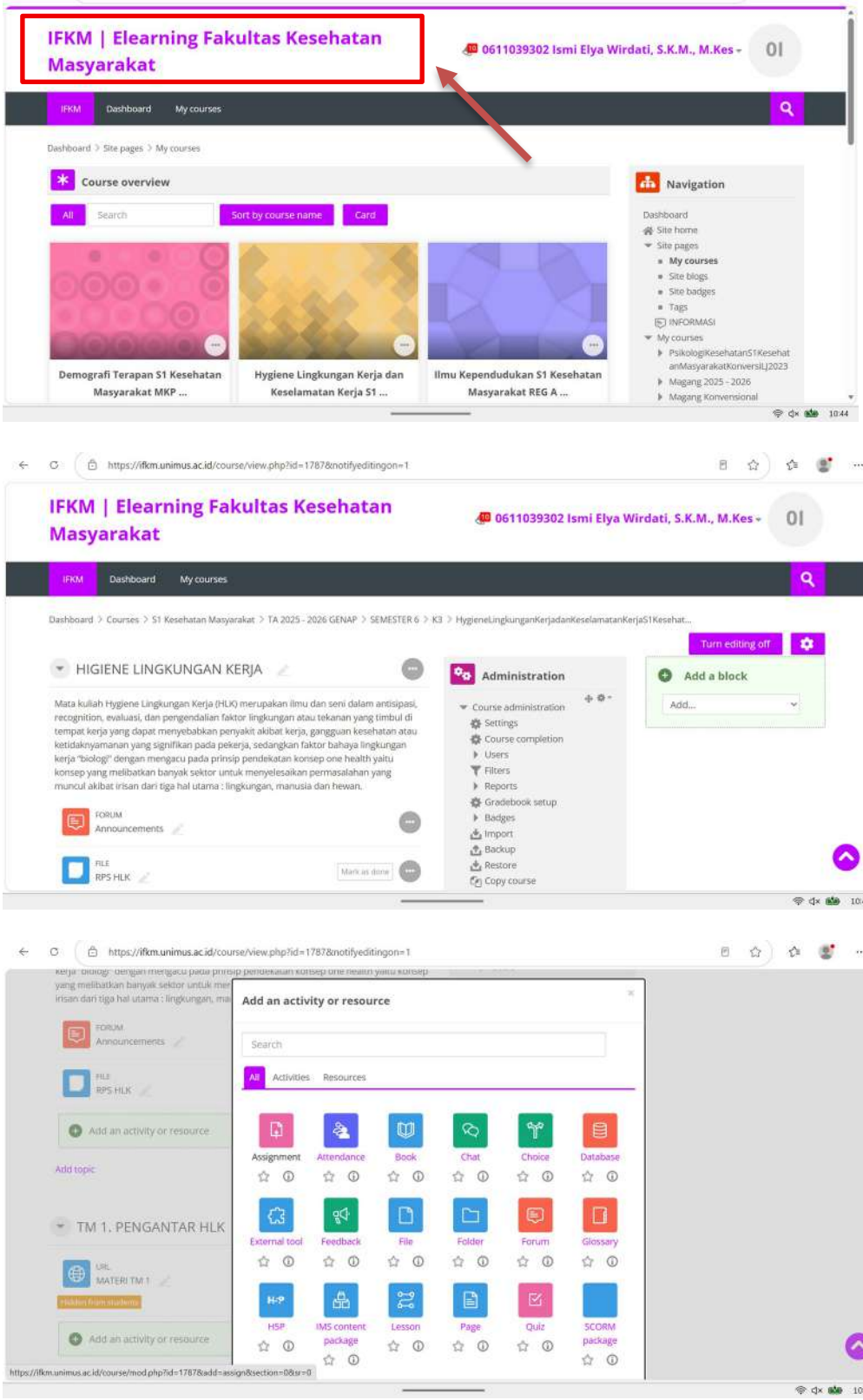
Description:
(*Please describe total volume of paper and plastic produced last year on your campus. The following is an example of the description. You can describe more related items if needed*.)

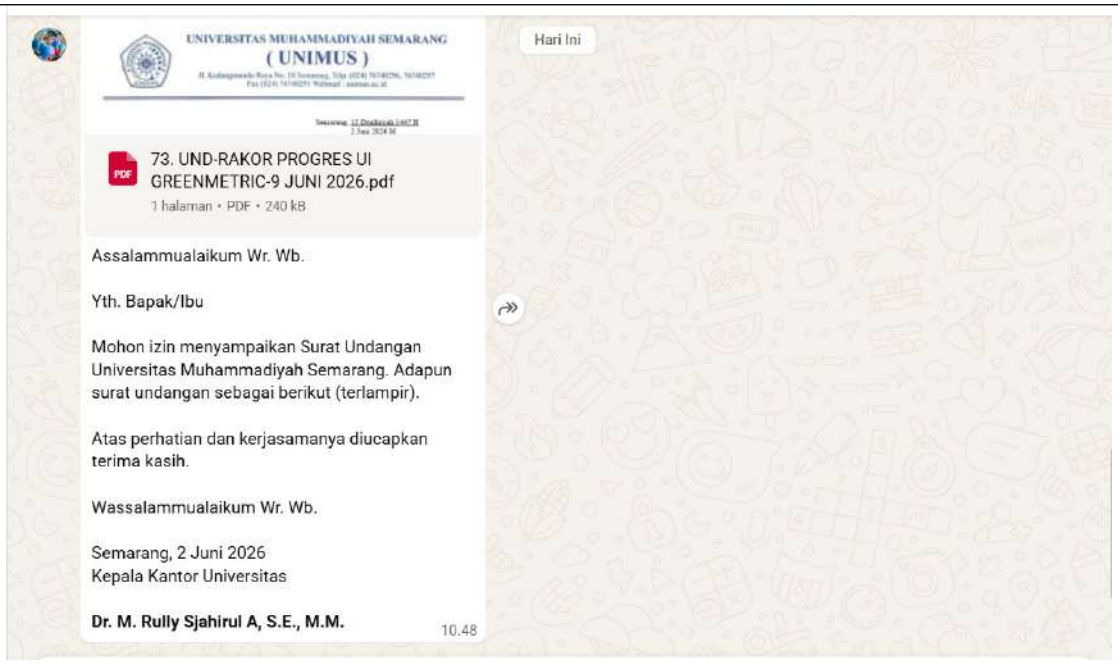
Based on the waste audit conducted for the previous year, University of Muhammadiyah Semarang produced a total of **144.2 tons of paper and plastic waste**, consisting of **63.2 tons of plastic waste** and **81 tons of paper waste**. The plastic waste was mainly generated from food and beverage packaging, including PET bottles, HDPE containers, LDPE plastic bags and food wrap, PP food containers and drinking cups, and PS/styrofoam-based packaging. Among these categories, LDPE plastic was the largest contributor with **16.5 tons**, followed by PP plastic with **13.7 tons**, PS plastic with **13 tons**, PET bottles with **11 tons**, and HDPE plastic with **9 tons**.
Paper waste generated in the previous year reached **81 tons**, mostly from HVS paper used for administrative documents, student reports, examination documents, and academic reports. Other sources included cardboard and duplex paper from packaging and archive folders, brochure paper from campus information and promotional materials, laminated or glossy paper from posters and banners, and tissue paper from sanitation facilities, lecturer rooms, and canteens.
Compared with the current year, the total volume of paper and plastic waste decreased from **144.2 tons to 129.2 tons**, showing a total reduction of **15 tons**. This reduction indicates the university's continuous effort to minimize paper and plastic waste through digitalization, paperless administration, e-learning, electronic correspondence, waste segregation, recycling practices, and programs to reduce single-use plastics on campus.

The gradual decline in total paper waste this year reflects the effectiveness of the university's. **UNIMUS has more than 10 paper and plastic reduction programs,** including:

No	Program	Evidence
1	E-office / electronic correspondence:	 

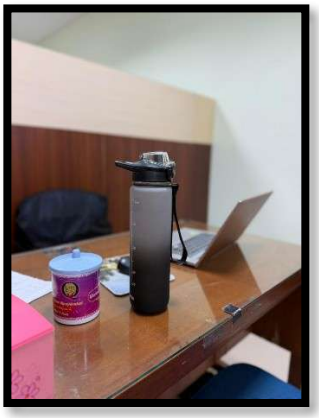
		
2	SIAMUS for academic services	 SIAMUS System

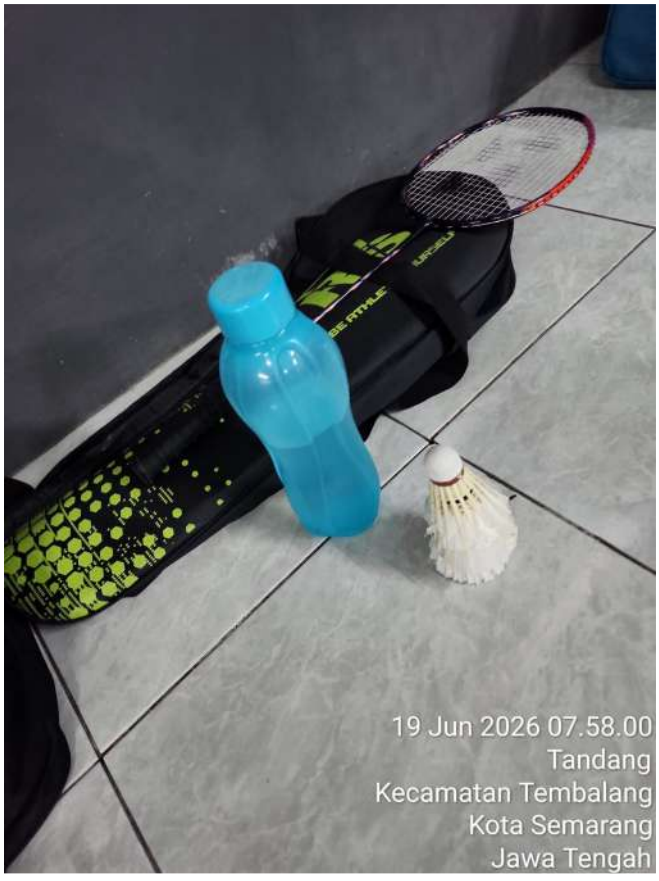
3	E-learning for course materials and assignments:	 E-Learning Course

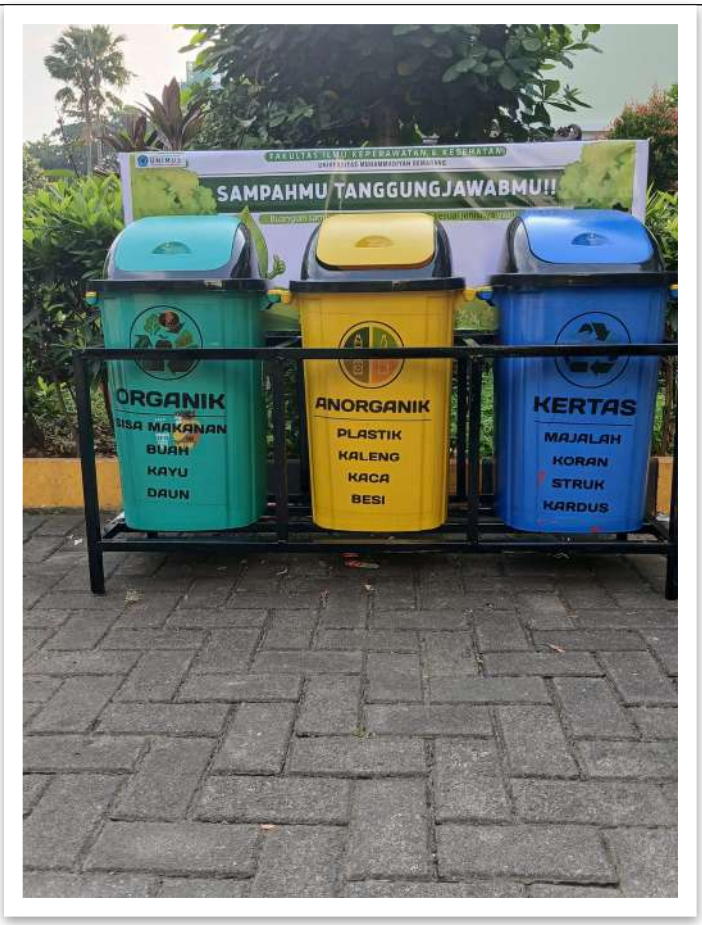
4	Reducing printed meeting documents	 Meet Announcement
5	Electronic signature:	 Barcode Signature

6	Reducing printed brochures to digital publications	 https://unimus.ac.id/ Website  https://pmb.unimus.ac.id/ Website

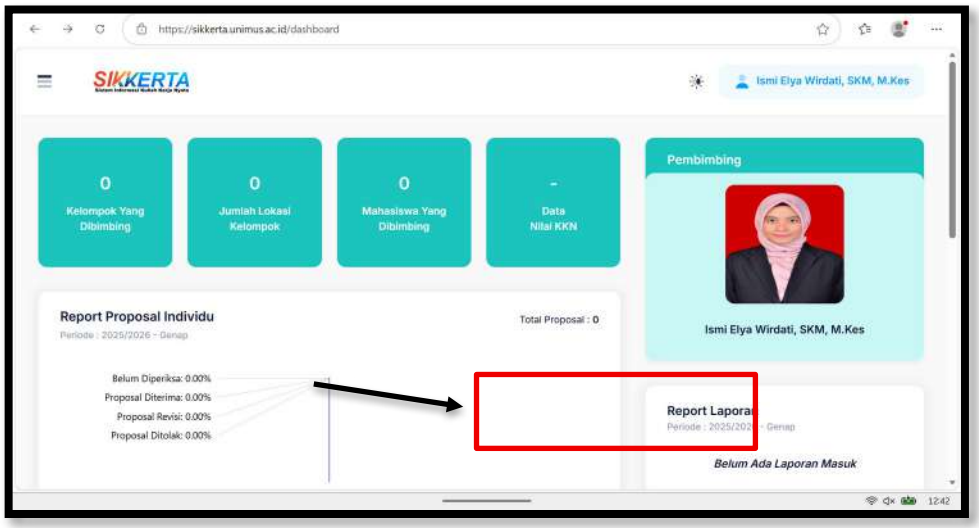
		  Unimus Social Media (Instagram)
7	Zero Single-Use Plastic Campaign	 KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Nomor : 610/UNIMUS/SK.PG/2024 tentang PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG DENGAN RAHMAT ALLAH SUBHANAHU WA TA'ALA REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Menimbang : a. bahwa semakin banyak dan meluasnya penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun perlu dibatasi dalam rangka kesehatan manusia dan perlindungan lingkungan hidup; b. bahwa cukup banyak kantin/warung/rumah makan di lingkungan Universitas Muhammadiyah Semarang yang masih menggunakan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; c. bahwa sebagai "Kampus Hijau" Universitas Muhammadiyah Semarang diharapkan membatasi penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; d. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a, huruf b, dan huruf c, perlu menetapkan Keputusan Rektor Universitas Muhammadiyah Semarang tentang Pembatasan Kemasan Makanan dan Minuman yang mengandung Bahan Berbahaya dan Beracun (B3) di Lingkungan Universitas Muhammadiyah Semarang Mengingat : 1. Undang-Undang Republik Indonesia Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional; 2. Undang-Undang Republik Indonesia Nomor 17 Tahun 2023 tentang Kesehatan; 3. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi; 4. Peraturan Pemerintah Nomor: 19 Tahun 2005 tentang Standar Nasional Pendidikan; 5. Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup; 6. Keputusan Mendikbud Nomor: 139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang; 7. Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 6 Tahun 2021 Tentang Tata Cara dan Persyaratan Pengelolaan Limbah Bahan Berbahaya dan Beracun; 8. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027; MEMUTUSKAN: Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG; KESATU : Mewujudkan pembatasan penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun di lingkungan Universitas Muhammadiyah Semarang; KEDUA : Mendorong penggunaan kemasan makanan dan minuman yang mengandung bahan yang ramah lingkungan seperti daun untuk pembungkus makanan, kaches, boks, dan gelas plastik yang *eco-friendly* serta mengurangi penggunaan bahan kemasan yang mengganggu kesehatan manusia dan lingkungan; KETIGA : Mendorong kegiatan daur ulang kemasan makanan dan minuman; KEEMPAT : Mendorong melakukan sosialisasi bahan kemasan yang ramah lingkungan kepada para penjual makanan dan minuman di lingkungan Universitas Muhammadiyah Semarang; Rule Zero Single Use Plastic

8	Use of tumblers for students/ lecturers/ employees:	  
9	Provision of water refill stations	 Figure 9. Student filling a tumbler

10	Restricting single-use plastic bottles during campus activities:	  Figure 10. Sport Tumbler
11	Sorting plastic	

	and paper waste	 Figure 11. Trash bins categorized by type

12	Collaboration with waste banks/recycling partners:	 Kota Semarang **Reverse Vending Machine Ubah Sampah Plastik Jadi Rupiah Makin Mudah, Komitmen Menjaga Lingkungan** Fista Novianti, Suara Merdeka – Selasa, 10 Desember 2024 | 17:00 WIB Universitas Muhammadiyah Semarang (Unimus) mendapatkan Reverse Vending Machine (RVM) dari PT Bank Syariah Indonesia Tbk (BSI), beberapa waktu lalu. (suaramerdeka.com/Fista Novianti) **SEMARANG, suaramerdeka.com** – Sampah bukan lagi barang bekas tidak bernilai. Dengan reverse vending machine, siapa saja bisa mengubah sampah menjadi pundi uang sembari menjaga bumi agar tetap layak ditinggali hingga waktu yang lama.

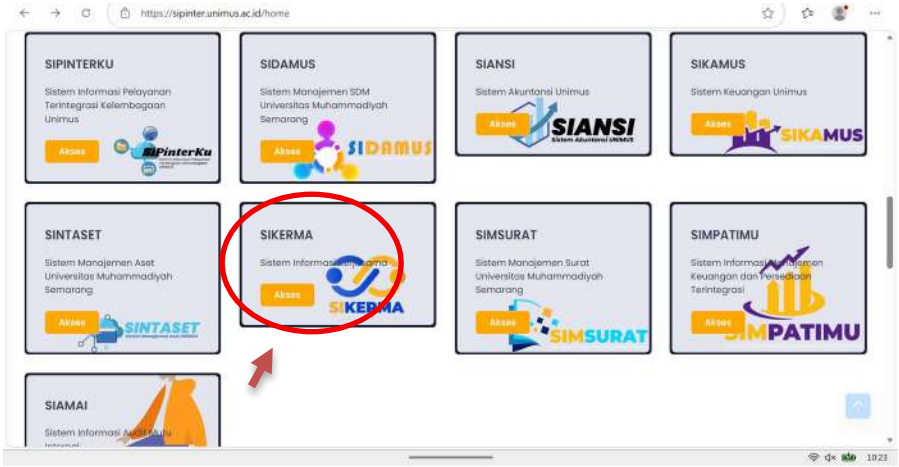
		 Figure 12 Collaboration waste with bank Source : UNIMUS MOU BSI MACCHINE BOTOL - Google Search
13	Digitizing academic and administrative reports	 Figure 13. Digital academic and administration

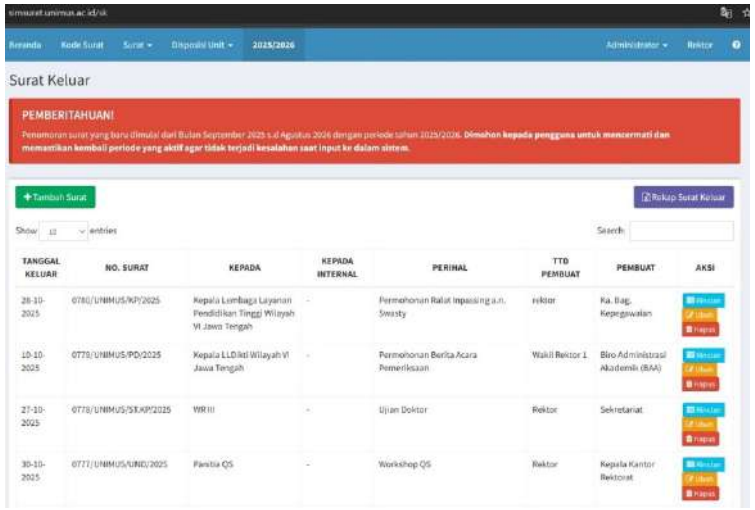
Evidence
UI GreenMetric Questionnaire

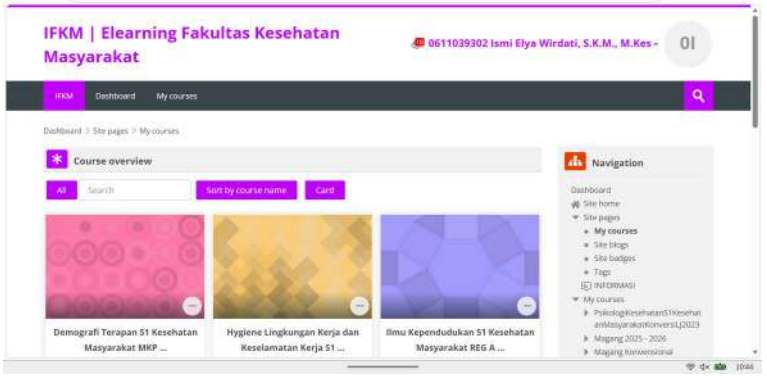
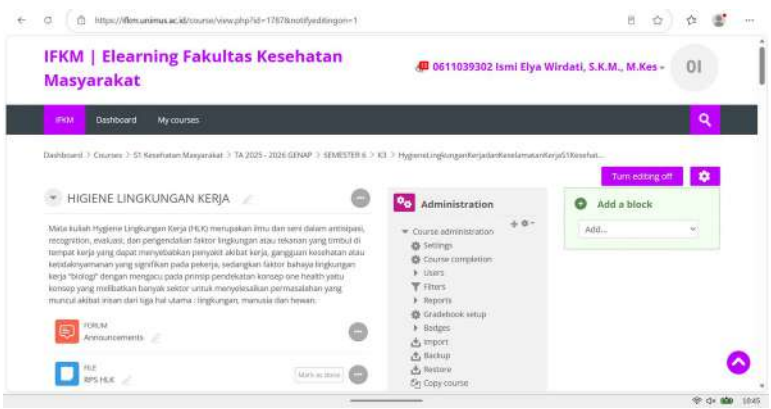
University : University of Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.4] Program to Reduce the Use of Paper and Plastic on Campus (WS.2)

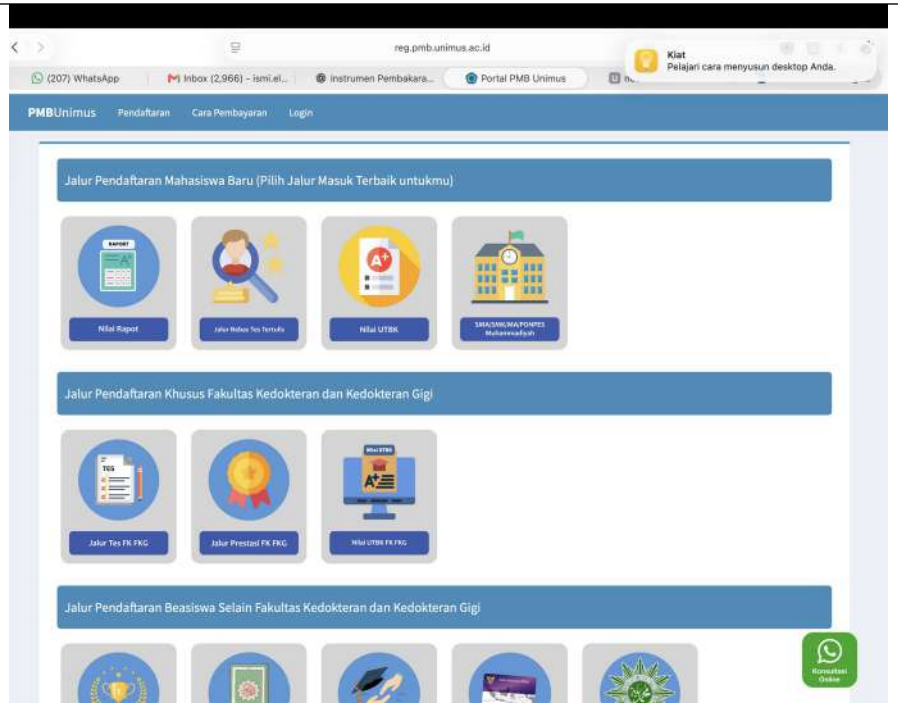
No	Program Name	type of reduction	implementation unit,	evidence	quantitative achievements
1	Paperless Academic Administration through SIAMUS	Reduction of HVS paper used for academic documents, student academic records, course registration, schedules, and academic services	Academic Administration, Study Programs, Faculties		Contributed to the reduction of HVS paper from 23 tons to 18 tons, reducing 5 tons

				 Halaman Utama Selamat Datang Manajemen Disposisi Surat Universitas Muhammadiyah Semarang Copyright © 2017 Universitas Muhammadiyah Semarang.  Surat Keluar PEMBERITAHUAN! Tambah Surat Rekap Surat Keluar	

2	E-Learning for Digital Teaching Materials and Assignments	Reduction of HVS paper used for printed teaching materials, student assignments, reports, and learning evaluation	IT Unit, Faculties, Study Programs, Lecturers	 	Supported the reduction of HVS paper by 5 tons

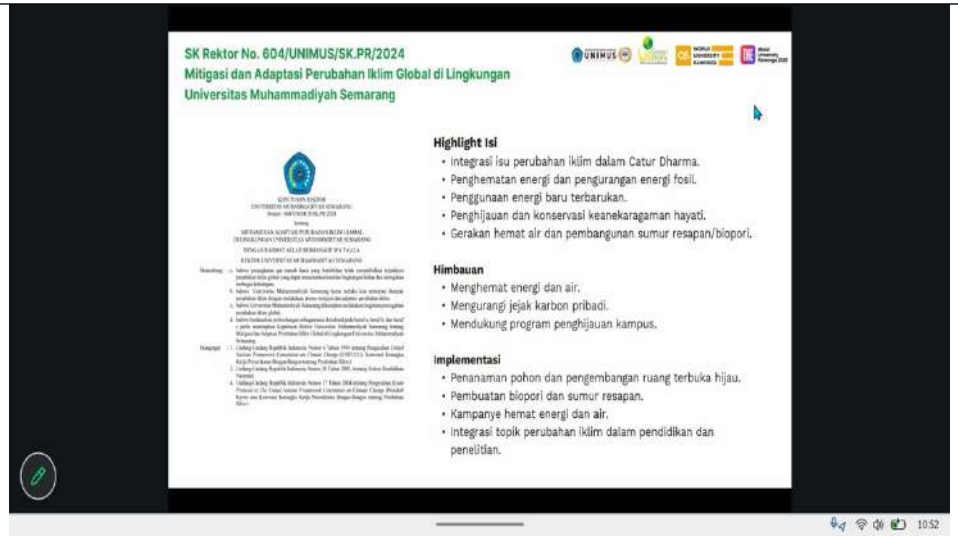
3	Electronic Correspondence / E-Office System	Reduction of HVS paper used for official letters, memos, dispositions, and administrative archives	Rectorate, University Secretariat, Faculties, Administrative Units		Supported the reduction of HVS paper from 23 tons to 18 tons
4	Digital Meeting Documents and Paperless Meetings	Reduction of paper used for meeting invitations, agendas, attendance lists, minutes, and printed meeting materials	Rectorate, Dean Offices, Study Programs, Bureaus, Institutes		Supported the reduction of HVS paper by 5 tons and brochure paper by 1.3 tons

5	Electronic Signature for Official Documents	Reduction of HVS paper and printed archives for official documents	Rectorate, Dean Offices, Administrative Bureau, ICT Unit	 KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Nomor : 160/UNIMUS/SK.PG/2024 tentang KEBIJAKAN *PAPERLESS* DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Menimbang : a. bahwa dalam rangka meningkatkan efisiensi, efektivitas, dan modernisasi sistem administrasi di lingkungan Universitas Muhammadiyah Semarang, perlu diterapkan kebijakan kerja berbasis digital (*paperless system*); b. bahwa penerapan kebijakan *paperless* juga merupakan bagian dari implementasi kebijakan *Green Campus* dan dukungan terhadap pencapaian *Sustainable Development Goals* (SDGs) di bidang lingkungan dan inovasi; c. bahwa sebagai pertimbangannya perlu ditetapkan dengan surat keputusan Rektor. Mengingat : 1. Undang–Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional; 2. Undang–Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi. 3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup; 4 Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi; 5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang; 6. Keputusan PP Muhammadiyah Nomor:483/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027 MEMUTUSKAN Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG KEBIJAKAN *PAPERLESS* DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG PERTAMA : Menetapkan Kebijakan *Paperless* sebagai pedoman bagi seluruh unit kerja di lingkungan Universitas Muhammadiyah Semarang dalam melaksanakan kegiatan administrasi, akademik, dan operasional kampus secara digital untuk mengurangi penggunaan kertas KEDUA : Kebijakan *Paperless* mencakup prinsip-prinsip sebagai berikut : 1. Penggunaan sistem dan aplikasi digital dalam proses administrasi, surat-menyurat, dan arsip dokumen; 2. Pengurangan penggunaan kertas dalam proses perkuliahan, ujian, dan kegiatan akademik; 3. Penggunaan tanda tangan elektronik yang sah dan diakui secara hukum dalam dokumen administrasi; 4. Penerapan sistem penyimpanan data berbasis *cloud* dan digital repository; 5. Edukasi dan sosialisasi kepada sivitas akademika mengenai pentingnya digitalisasi dokumen; 6. Integrasi sistem informasi universitas untuk mendukung *paperless office*. KETIGA : Dalam pelaksanaan dan monitoring kepatuhan terhadap kebijakan ini dilakukan oleh Wakil Rektor Bidang II dan melaporkan secara berkala kepada Rektor. KEEMPAT : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya. Ditetapkan di : Semarang Pada tanggal : 7 Jumadil Awal 1446 H 9 November 2024 M Rektor Prof. Dr. Masrukhi, M.Pd Salinan disampaikan kepada Yth : 1. Para Wakil Rektor 2. Para Dekan dan Ka Lembaga 3. Para Ka UPT dan Ka Biro RULE OF ELECTRONIC SIGNATURE	Supported the reduction of HVS paper by 5 tons

6	Online Registration and Digital Forms	Reduction of printed forms, registration documents, brochures, and manual administrative sheets	Admission Office, Faculties, Study Programs, Event Committees	 Source : https://reg.pmb.unimus.ac.id/index2.php?hal=LTx6F4YM6QOLQdyllOGMHubs6HU6Vd5pYLnRmxA1KOvniCpB5YUCqEcPs0deDxZ0	Supported the reduction of brochure paper from 14 tons to 12.7 tons, reducing 1.3 tons

7	Digital Publication and Online Promotion Campaign	Reduction of printed brochures, leaflets, posters, magazines, and physical promotional materials	Public Relations Office, Admission Office, Faculties, Study Programs, Media Center	 Source. https://pmb.unimus.ac.id/ Website	ported the reduction rochure paper by 1.3 s and inated/glossy paper tons

8	Double-Sided Printing and Print Only When Necessary Policy	Reduction of HVS paper through double-sided printing and limitation of unnecessary printing	All administrative units, laboratories, faculty offices, library	 KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Nomor : 160/UNIMUS/SK.PG/2024 tentang KEBIJAKAN *PAPERLESS* DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Menimbang : a. bahwa dalam rangka meningkatkan efisiensi, efektivitas, dan modernisasi sistem administrasi di lingkungan Universitas Muhammadiyah Semarang, perlu diterapkan kebijakan kerja berbasis digital (*paperless system*); b. bahwa penerapan kebijakan *paperless* juga merupakan bagian dari implementasi kebijakan *Green Campus* dan dukungan terhadap pencapaian *Sustainable Development Goals* (SDGs) di bidang lingkungan dan inovasi; c. bahwa sebagai pertimbangannya perlu ditetapkan dengan surat keputusan Rektor. Mengingat : 1. Undang–Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional; 2. Undang–Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi. 3. Undang-Undang Nomor 32 Tahun 2009 tentang Perlindungan dan Pengelolaan Lingkungan Hidup; 4 Peraturan Pemerintah Nomor 70 Tahun 2009 tentang Konservasi Energi; 5. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang; 6. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027 MEMUTUSKAN Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG KEBIJAKAN *PAPERLESS* DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG PERTAMA : Menetapkan Kebijakan *Paperless* sebagai pedoman bagi seluruh unit kerja di lingkungan Universitas Muhammadiyah Semarang dalam melaksanakan kegiatan administrasi, akademik, dan operasional kampus secara digital untuk mengurangi penggunaan kertas KEDUA : Kebijakan *Paperless* mencakup prinsip-prinsip sebagai berikut : 1. Penggunaan sistem dan aplikasi digital dalam proses administrasi, surat-menyurat, dan arsip dokumen; 2. Pengurangan penggunaan kertas dalam proses perkuliahan, ujian, dan kegiatan akademik; 3. Penggunaan tanda tangan elektronik yang sah dan diakui secara hukum dalam dokumen administrasi; 4. Penerapan sistem penyimpanan data berbasis *cloud* dan digital repository; 5. Edukasi dan sosialisasi kepada sivitas akademika mengenai pentingnya digitalisasi dokumen; 6. Integrasi sistem informasi universitas untuk mendukung *paperless office*. KETIGA : Dalam pelaksanaan dan monitoring ketaatan terhadap kebijakan ini dilakukan oleh Wakil Rektor Bidang II dan melaporkan secara berkala kepada Rektor. KEEMPAT : Keputusan ini berlaku sejak tanggal ditetapkan dengan ketentuan apabila di kemudian hari terdapat kekeliruan dalam penetapan ini segala sesuatunya akan diperbaiki sebagaimana mestinya. Ditetapkan di : Semarang Pada tanggal : 7 Jumadil Awal 1446 H 9 November 2024 M Rektor Prof. Dr. Masrukhi, M.Pd Salinan disampaikan kepada Yth : 1. Para Wakil Rektor 2. Para Dekan dan Ka Lembaga 3. Para Ka UPT dan Ka Biro Rule Reduction of HVS	Supported the reduction of HVS paper by 5 tons

9	Reuse of Used Paper for Internal Drafts	Reuse of one-sided used paper for internal drafts, notes, document corrections, and temporary administrative records	Administrative Offices, Laboratories, Library, Study Programs	 Paper Reuse Guidlines	Supported the reduction of HVS paper by 5 tons and cardboard/duplex paper by 2.5 tons
10	Zero Single-Use Plastic Campaign	Reduction of single-use plastics such as plastic bags, straws, plastic cups, food packaging, and disposable containers	Rectorate, Faculties, Canteens, Student Organizations, Green Campus Team	 Campaign Posters Zero Plastic to civitas academic	Supported the reduction of total plastic waste from 63.2 tons to 60 tons, reducing 3.2 tons

11	Reusable Bottle and Tumbler Campaign	Reduction of PET plastic bottles from packaged drinking water	Students, Lecturers, Staff, Canteens, University Events	 Photos of students and staff using tumblers	Supported the reduction of PET bottles from 11 tons to 10.7 tons, reducing 0.3 tons

12	Reduction of Plastic Bottled Water in Campus Events	Reduction of PET bottles, PP plastic cups, plastic straws, and disposable drinking water packaging in meetings, seminars, and campus events	Rectorate, Faculties, Study Programs, Event Committees		Supported the reduction of PET bottles by 0.3 tons and PP plastic from 13.7 tons to 13 tons, reducing 0.7 tons

				 Photos of events without plastic bottled water, use of dispensers and reusable glasses	

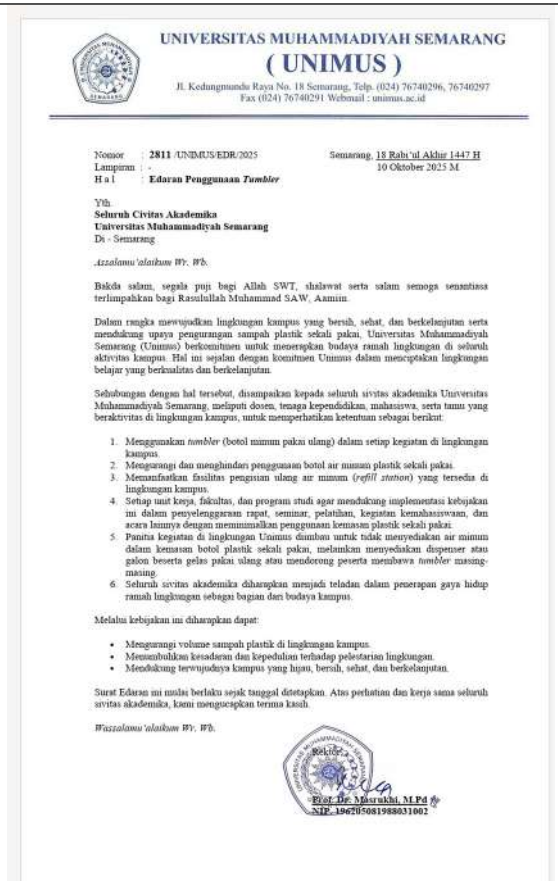
13	Refill Water Station on Campus	Reduction of bottled drinking water, PET bottles, and several plastic water containers	Lecture Buildings, Faculties, Library, Rectorate, Canteens	 Photos of refill water stations, list of locations	Supported the reduction of PET bottles by 0.3 tons and HDPE plastic from 9 tons to 8.3 tons, reducing 0.7 tons

14	Reusable Food Containers and Eco-Friendly Packaging in Canteens	Reduction of LDPE, PP, and PS/styrofoam from food wrappers, plastic cups, straws, and disposable food containers	Campus Canteens, Cooperatives, Food Vendors, Building Management Units	 	Supported the reduction of LDPE by 0.5 tons, PP by 0.7 tons, and PS by 1 ton

				 Photos of canteen practices → eco-friendly packaging samples	

15	Paper and Plastic Waste Segregation and Recycling Partnership	Reduction of paper and plastic residual waste through segregation, waste bank activities, and recycling partnership	Green Campus Team, Cleaning Service, UNIMUS Waste Bank / Recycling Partners, Faculties	 Photo of waste weighing reports, MoU or cooperation documents, collection documentation	Supported the total reduction of paper waste by 11.8 tons and plastic waste by 3.2 tons, with a total reduction of 15 tons

16	Prohibition of Styrofoam-Based Flower Boards and Replacement with Living Trees or Fresh Orchid Flowers	Reduction of PS / polystyrene waste from conventional styrofoam-based congratulatory flower boards by replacing them with living trees, ornamental plants, or fresh orchid flowers	Rectorate, Public Relations Office, General Affairs Unit, Faculties, Event Committees, Flower Vendors		 KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Nomor : 610/UNIMUS/SK.PG/2024 tentang PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG DENGAN RAHMAT ALLAH SUBHANAHU WA TA'ALA REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG Menimbang : a. bahwa semakin banyak dan meluasnya penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun perlu dibatasi dalam rangka kesehatan manusia dan perlindungan lingkungan hidup; b. bahwa cukup banyak kantin/warung/rumah makan di lingkungan Universitas Muhammadiyah Semarang yang masih menggunakan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; c. bahwa sebagai "Kampus Hijau" Universitas Muhammadiyah Semarang diharapkan membatasi penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun; d. bahwa berdasarkan pertimbangan sebagaimana dimaksud pada huruf a, huruf b, dan huruf c, perlu menetapkan Keputusan Rektor Universitas Muhammadiyah Semarang tentang Pembatasan Kemasan Makanan dan Minuman yang mengandung Bahan Berbahaya dan Beracun (B3) di Lingkungan Universitas Muhammadiyah Semarang Mengingat : 1. Undang-Undang Republik Indonesia Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional; 2. Undang-Undang Republik Indonesia Nomor 17 Tahun 2023 tentang Kesehatan; 3. Peraturan Pemerintah Republik Indonesia Nomor 4 Tahun 2014 tentang Penyelenggaraan Pendidikan Tinggi dan Pengelolaan Perguruan Tinggi; 4. Peraturan Pemerintah Nomor: 19 Tahun 2005 tentang Standar Nasional Pendidikan; 5. Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup; 6. Keputusan Mendikbud Nomor: 139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang; 7. Peraturan Menteri Lingkungan Hidup dan Kehutanan Nomor 6 Tahun 2021 Tentang Tata Cara dan Persyaratan Pengelolaan Limbah Bahan Berbahaya dan Beracun; 8. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027; MEMUTUSKAN: Menetapkan : KEPUTUSAN REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG TENTANG PEMBATASAN KEMASAN MAKANAN DAN MINUMAN YANG MENGADUNG BAHAN BERBAHAYA DAN BERACUN (B3) DI LINGKUNGAN UNIVERSITAS MUHAMMDIYAH SEMARANG; KESATU : Mewujudkan pembatasan penggunaan kemasan makanan dan minuman yang mengandung bahan berbahaya dan beracun di lingkungan Universitas Muhammadiyah Semarang; KEDUA : Mendorong penggunaan kemasan makanan dan minuman yang mengandung bahan yang ramah lingkungan seperti daun untuk pembungkus makanan, kardus, boks, dan gelas plastik yang *eco-friendly* serta mengurangi penggunaan bahan kemasan yang menggangu kesehatan manusia dan lingkungan; KETIGA : Mendorong kegiatan daur ulang kemasan makanan dan minuman; KEEMPAT : Mendorong melakukan sosialisasi bahan kemasan yang ramah lingkungan kepada para penjual makanan dan minuman di lingkungan Universitas Muhammadiyah Semarang;	Supported the reduction of PS / polystyrene plastic from 13 tons to 12 tons, reducing 1 ton

				 UNIVERSITAS MUHAMMADIYAH SEMARANG (UNIMUS) Jl. Kedungmundu Raya No. 18 Semarang, Telp. (024) 76740296, 76740297 Fax (024) 76740291 Webmail : unimus.ac.id Nomor : **2811** /UNIMUS/EDR/2025 Lampiran : - H a l : **Edaran Penggunaan *Tumbler*** Semarang, 18 Rabi'ul Akhir 1447 H 10 Oktober 2025 M Yth. **Seluruh Civitas Akademika** **Universitas Muhammadiyah Semarang** Di - Semarang *Assalamu'alaikum Wr. Wb.* Bakda salam, segala puji bagi Allah SWT, shalawat serta salam semoga senantiasa terlimpahkan bagi Rasulullah Muhammad SAW, Aamiin. Dalam rangka mewujudkan lingkungan kampus yang bersih, sehat, dan berkelanjutan serta mendukung upaya pengurangan sampah plastik sekali pakai, Universitas Muhammadiyah Semarang (Unimus) berkomitmen untuk menerapkan budaya ramah lingkungan di seluruh aktivitas kampus. Hal ini sejalan dengan komitmen Unimus dalam menciptakan lingkungan belajar yang berkualitas dan berkelanjutan. Sehubungan dengan hal tersebut, disampaikan kepada seluruh sivitas akademika Universitas Muhammadiyah Semarang, meliputi dosen, tenaga kependidikan, mahasiswa, serta tamu yang beraktivitas di lingkungan kampus, untuk memperhatikan ketentuan sebagai berikut: 1. Menggunakan *tumbler* (botol minum pakai ulang) dalam setiap kegiatan di lingkungan kampus. 2. Mengurangi dan menghindari penggunaan botol air minum plastik sekali pakai. 3. Memanfaatkan fasilitas pengisian ulang air minum (*refill station*) yang tersedia di lingkungan kampus. 4. Setiap unit kerja, fakultas, dan program studi agar mendukung implementasi kebijakan ini dalam penyelenggaraan rapat, seminar, pelatihan, kegiatan kemahasiswaan, dan acara lainnya dengan meminimalkan penggunaan kemasan plastik sekali pakai. 5. Panitia kegiatan di lingkungan Unimus diimbau untuk tidak menyediakan air minum dalam kemasan botol plastik sekali pakai, melainkan menyediakan dispenser atau galon beserta gelas pakai ulang atau mendorong peserta membawa *tumbler* masing-masing. 6. Seluruh sivitas akademika diharapkan menjadi teladan dalam penerapan gaya hidup ramah lingkungan sebagai bagian dari budaya kampus. Melalui kebijakan ini diharapkan dapat: • Mengurangi volume sampah plastik di lingkungan kampus. • Menumbuhkan kesadaran dan kepedulian terhadap pelestarian lingkungan. • Mendukung terwujudnya kampus yang hijau, bersih, sehat, dan berkelanjutan. Surat Edaran ini mulai berlaku sejak tanggal ditetapkan. Atas perhatian dan kerja sama seluruh sivitas akademika, kami mengucapkan terima kasih. *Wassalamu'alaikum Wr. Wb.* Rektor, **Prof. Dr. Masrukhi, M.Pd** **NIP. 196705081988031002** Rule Zero Single Use Plastic	

Description:
(*Please describe the program to reduce the use of paper and plastic on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) has implemented various initiatives to reduce paper and plastic usage across campus operations as part of its *Green Campus* and *Sustainable Environment Program*. The university integrates digital transformation, waste reduction, and eco-friendly behavior into academic and administrative systems.
Through these continuous efforts, UNIMUS has significantly reduced its dependency on paper and single-use plastic materials, aligning with its commitment to environmental sustainability and **SDG 12 – Responsible Consumption and Production**.

Evidence
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.5] Total volume organic waste produced this year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
Organic	232	221	11	35	120	40
Food Waste (Canteen): Egg, fruits, Coffee and tea grounds, Fish or chicken bones from leftover food, etc	75	70	5	20	35	10
Organic Waste from Laboratories and Practicals (Faculty of Health, Nutrition, and Food Technology)	28	26	2	5	15	5
Organic Waste from Campus Parks and Green Areas	72	70	2	5	50	15
Organic Waste from Dormitory Household Activities & Campus Units	57	55	2	5	20	10

Total treated = 35 + 120 + 40 = 195 ton
Treatment percentage = 195/221 × 100 = 88,24%

Universitas Muhammadiyah Semarang (UNIMUS) continuously monitors and records the generation of organic waste as part of its integrated Green Campus and Circular Economy Program. Organic waste is generated from campus cafeterias, teaching laboratories, campus parks and green areas, student dormitories, and other supporting facilities. All organic waste is measured through a routine weighing system, documented in the campus waste management database, and analyzed periodically to evaluate waste reduction performance and treatment efficiency.
https://sustainability.unimus.ac.id/waste

In 2026, UNIMUS generated a total of **221 tons of organic waste**, representing a reduction of **11 tons (4.74%)** compared with **232 tons** generated in 2025. This reduction reflects the successful implementation of various waste prevention initiatives, including food waste minimization campaigns, efficient landscape maintenance, source segregation, digital awareness programs, and sustainable consumption practices across the university.

The organic waste generated during 2026 originated from four main sources: **70 tons** from campus cafeterias, **26 tons**from teaching laboratories and practical activities in the Faculties of Health,

Nutrition, and Food Technology, **70 tons**from campus parks and landscape maintenance, and **55 tons** from student dormitories and other campus operational units.
https://drive.google.com/file/d/1JWjEtCk36CsR3EWa_c8eQsV3RtKW03ts/view?usp=share_link

To support the implementation of a circular economy, UNIMUS successfully treated **195 tons (88.24%)** of the total organic waste generated. Organic waste was managed through several environmentally sustainable treatment methods, including **35 tons reused**, **120 tons processed through composting and other down-cycling activities**, and **40 tons converted into higher-value products through up-cycling initiatives**, such as Black Soldier Fly (BSF) cultivation, eco-enzyme production, and other organic resource recovery programs. Only a small portion of organic waste remained untreated due to unavoidable operational losses and contamination.
https://drive.google.com/file/d/1JWjEtCk36CsR3EWa_c8eQsV3RtKW03ts/view?usp=sharing

The compost produced is fully utilized within the university for tree planting, landscape maintenance, greenhouse cultivation, and soil improvement programs, while BSF products and eco-enzymes support sustainable waste management education and community engagement activities. These initiatives significantly reduce the amount of organic waste sent to landfill, improve soil fertility, reduce greenhouse gas emissions, and strengthen biodiversity within the campus environment.
(https://drive.google.com/file/d/1exEV21hlW3BPRwGwGbnnQ0slB9g2Tx0E/view?usp=sharing)

The implementation of an integrated organic waste management system at UNIMUS follows the **Plan–Do–Check–Act (PDCA)** approach through routine monitoring, monthly performance evaluation, internal audits, management reviews, and digital KPI dashboards. Waste generation, treatment performance, compost production, material flow analysis, and environmental impacts are continuously monitored using an ICT-based management system to support evidence-based decision-making and continuous improvement.
(https://drive.google.com/file/d/1aXmDyb1alGiOHMR7seypMvujRuB8BPNe/view?usp=sharing)

Overall, the organic waste management program demonstrates UNIMUS' commitment to sustainable campus operations, circular economy principles, and environmental stewardship while contributing directly to the achievement of **SDG 2 (Zero Hunger), SDG 3 (Good Health and Well-being), SDG 6 (Clean Water and Sanitation), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 15 (Life on Land), and SDG 17 (Partnerships for the Goals).**
Supporting documents, performance dashboards, Material Flow Analysis (MFA), compost production reports, utilization reports, internal audit reports, management review reports, and photo documentation are available at: https://sustainability.unimus.ac.id/waste

Evidence
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.6] Total volume organic waste produced last year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
Organic	232	221	11	35	120	40
Food Waste (Canteen): Egg, fruits, Coffee and tea grounds, Fish or chicken bones from leftover food, etc	75	70	5	20	35	10
Organic Waste from Laboratories and Practicals (Faculty of Health, Nutrition, and Food Technology)	28	25	2	5	15	5
Organic Waste from Campus Parks and Green Areas	72	70	2	5	50	15
Organic Waste from Dormitory Household Activities & Campus Units	57	55	2	5	20	10

Description:
(*Please describe total organic waste produced last year on your campus. The following is an example of the description. You can describe more related items if needed*.)

In 2025, Universitas Muhammadiyah Semarang (UNIMUS) generated a total of 232 tons of organic waste from various campus activities. The organic waste originated from campus canteens, teaching laboratories and practical activities, campus parks and green areas, student dormitories, and other campus operational units.

The largest sources of organic waste were food waste from canteens with 75 tons, followed by organic waste from campus parks and green areas with 72 tons, organic waste from dormitory household activities and campus units with 57 tons, and organic waste from laboratories and practical activities with 28 tons. In 2026, UNIMUS reduced its organic waste generation to 221 tons, showing a reduction of 11 tons compared with the previous year. This reduction was achieved through food waste prevention, source segregation, composting, reuse, BSF processing, eco-enzyme production, and improved green campus waste management practices.

The recorded data shows that UNIMUS has developed a more systematic organic waste management approach by integrating waste reduction, reuse, down-cycling through composting, and up-cycling

through innovative organic waste recovery programs. These efforts support circular economy implementation, reduce waste sent to landfill, and strengthen UNIMUS' contribution to sustainable campus development and UI GreenMetric Waste Management criteria.

Evidence
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.8] Organic Waste Treatment (WS.3)




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Kedungmundu
Kecamatan Tembalang
Kota Semarang
Jawa Tengah


GARPRAS
UNMUS
WUJUDKAN
GREEN CAMPUS BERSAMA !!
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Kecamatan Tembalang
Kota Semarang
Jawa Tengah

Waste Sorting Programm at the Campuss



Weighing Waste



Waste Shredding Area



Waste Composting Area





Compost Ready To Use





Maggot BSF (Black Soldier Fly)





Eco Enzym Product



Biogas Digester



Utilization of Bio Slurry



Students provide training to local residents and schools around UNIMUS on composting

Example of Organic Waste Treatment UNIMUS

Description:

(*Please describe the program to treat organic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) has implemented several programs and facilities to manage and treat organic waste as part of its *Green Campus* initiative. The treatment focuses on reducing organic waste from canteens, laboratories, dormitories, and campus green areas through composting, reuse, and eco-enzyme production

1. **Composting Program for Garden and Food Waste**
   Organic waste such as leaves, grass clippings, and food scraps from canteens and dormitories is collected and processed through **aerobic composting**. The resulting compost is used for campus landscaping, tree planting, and gardening projects around the university. Faculties and student environmental organizations actively participate in collecting and sorting organic materials.
2. **Eco-Enzyme and Liquid Fertilizer Production**
   Food waste such as fruit peels, vegetable residues, and coffee grounds are treated through **fermentation processes** to produce **eco-enzymes and organic liquid fertilizers**. These products are utilized in maintaining campus gardens and distributed for community outreach programs related to sustainable waste management.
3. **Laboratory-Based Organic Waste Processing**
   In the Faculty of Health, Nutrition, and Food Technology, laboratory waste from practical sessions (such as leftover food samples and plant residues) is processed into compost and liquid fertilizer.

Students learn sustainable waste management practices through project-based learning and research activities.

4. **Integration with Green Campus and SDGs Education**
   Organic waste treatment is also integrated into environmental education through seminars, workshops, and *service learning* projects. These programs help raise awareness among students and staff about responsible consumption and waste reduction, aligning with **Sustainable Development Goals (SDG) 12 and SDG 13**.
   📹 *Video link:* UNIMUS Biogas Documentation
5. **Organic Waste Sorting and Collection System**
   Each faculty and dormitory applies a **waste segregation system**, using green-labeled bins for organic waste. Collected organic waste is transferred to a central **Organic Waste Treatment Station**, ensuring consistent monitoring and reducing contamination between waste types.
6. **Campus Garden Compost Application Program**
   Compost and bio-fertilizer produced from organic waste treatment are **reused in campus gardens**, particularly at the UNIMUS Green Park, herbal garden, and vertical plant projects. This initiative promotes a **closed-loop system** where organic waste returns to nature as a nutrient source.
7. **Community-Based Organic Waste Training**
   Through the **Green Campus Community Service Program (KKN Tematik Lingkungan)**, students provide **training to local residents** and schools around UNIMUS on composting, eco-enzyme making, and household waste reduction, extending environmental awareness beyond the university.
8. **Integration of Organic Waste Management into Education and Research**
   Organic waste management is integrated into **curriculum, seminars, and student research projects** related to environmental health, green technology, and sustainable food systems. This approach embeds sustainability values into academic culture and innovation.

Universitas Muhammadiyah Semarang (UNIMUS) has developed an innovative program for **organic waste treatment through biogas production**, as part of its commitment to sustainable waste management and renewable energy development. This initiative transforms organic waste from canteens, student dormitories, and laboratory activities into useful energy resources while reducing the amount of waste sent to landfills.

The **biogas installation** utilizes food residues such as rice, vegetables, fruit peels, and leftover meals collected from the campus canteen and dormitory kitchens. These organic materials are processed in a **biogas digester** through an **anaerobic fermentation process**, in which microorganisms break down organic matter to produce **methane gas (CH_4)** and **bio-slurry**. The methane gas is then captured and used as a **renewable energy source for cooking and heating water** in several campus facilities, while the bio-slurry by-product is used as **organic fertilizer** for UNIMUS's green areas and community farming projects.

This program is managed collaboratively by the **Faculty of Health, Nutrition, and Food Technology** together with the **Green Campus Team**, involving students in **research-based learning and environmental projects**. The biogas initiative not only reduces organic waste volume but also contributes to reducing greenhouse gas emissions and fossil fuel consumption within the campus.

Through this initiative, UNIMUS demonstrates a concrete effort to integrate **waste-to-energy technology** into university operations, supporting **Sustainable Development Goals (SDG) 7 – Affordable and Clean Energy**, **SDG 12 – Responsible Consumption and Production**, and **SDG 13 – Climate Action**

Link Video Documentation Biogas :
https://drive.google.com/file/d/1w_oG4bFcLn2iJMn3WT4cOsdvyzLncmlR/view?usp=drive_link

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.9] Total volume inorganic waste produced this year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
inorganic non-toxic	100	86	14,5	33,5	23	15
Paper and Similar Products: Copy paper, exam paper, student assignment sheets Old archival paper, office documents Used cardboard (for packaging equipment/materials) Brochures, leaflets, and posters for campus activities Unused magazines, **books, or printed documents**	28	24	4	8	10	2
Soft Plastic: Plastic bags, plastic food wrap Plastic drinking cups, straws, plastic mica, and plastic lids Plastic lining for non-hazardous laboratory equipment Plastic from stationery packaging and non-infectious medical equipment	24	20	4	5	6	5
Hard Plastic:	15	13	2	6	2	3

Mineral water bottles (PET, HDPE) Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, damaged gallon jugs, and material storage containers Used food and drink containers						
Hard Plastic Mineral water bottles (PET, HDPE) : Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, broken gallon jugs, and other material storage containers Used food and drink containers	14	12	2	5	3	2
Light Metal and Cans (Metal Waste): Drink and snack cans Metal bottle caps Wire and non-contaminant light metal Leftover office equipment (metal clips, broken staplers)	9	8	1	5	1	1
Non-B3 Glass and Broken Glass : Used glass bottles for non-toxic lab materials Glass from non-chemical laboratory equipment Glass cups and jars from the cafeteria Non-mercury glass lamps	6	5	1	3	1	0
Non-Toxic Textiles and Mixed Materials: Banners or event banners (PVC, flexy) Uniforms or used fabrics/	2	2	0.5	0.5	0	1

Sacks, raffia rope, or other equipment wrapping materials						
Non-B3 Small Electronics (Non-Toxic Light E-Waste) Damaged cables, adapters, mice, and keyboards Remotes, chargers, or other hazardous non-battery electronic devices	2	2	0	1	0	1

Description:
(*Please describe total inorganic waste produced this year on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) implements an integrated inorganic waste management system based on the principles of Reduce, Reuse, Recycle (3R) and the Circular Economy**.** The program is supported by waste segregation at source, routine waste collection, digital monitoring, waste bank operations, material recovery activities, recycling partnerships, and continuous performance evaluation through the Green Campus Management System.

In 2026, UNIMUS generated a total of 86 tons of non-hazardous inorganic waste**,** representing a reduction of 14 tons (14%) compared with 100 tons generated in 2025**.** This achievement reflects the successful implementation of waste reduction initiatives, including paperless administration, double-sided printing policies, digital learning systems, reusable tumbler campaigns, plastic reduction programs, waste segregation, and campus-wide environmental awareness activities.

The inorganic waste generated during 2026 consisted of 24 tons of paper and paper-based products**,** 20 tons of soft plastics**,** 13 tons of PET/HDPE bottles and rigid plastics**,** 12 tons of laboratory plastic containers and other rigid plastic materials**,** 8 tons of light metals and beverage cans**,** 5 tons of non-B3 glass**,** 2 tons of textiles and mixed materials, and 2 tons of non-toxic electronic waste (small e-waste)**.** All waste streams were systematically recorded through routine weighing and categorized according to the university's waste inventory system.

To maximize resource recovery and minimize landfill disposal, UNIMUS successfully managed inorganic waste through multiple treatment approaches. During 2026, 33.5 tons of inorganic materials were reused**,** 23 tons were recycled through down-cycling processes**,** and 15 tons were up-cycled into higher-value products, resulting in a total of 71.5 tons of inorganic waste being diverted from final disposal facilities. Paper waste was reused and recycled into office paper and packaging materials, plastics were processed through recycling and waste bank programs, banners were transformed into reusable products such as shopping bags and educational media, glass and metal were sent to certified recycling partners, while non-toxic electronic waste was collected and transferred to authorized recyclers through scheduled collection programs.

UNIMUS continuously strengthens its circular economy implementation through the establishment of waste collection points, a campus waste bank, plastic shredding facilities, temporary storage areas for recyclable materials, partnerships with licensed recycling companies, and ICT-based monitoring systems. Waste generation, recovery rates, recycling performance, and environmental indicators are monitored using digital KPI dashboards, Material Flow Analysis (MFA), monthly performance reports, internal environmental audits, and Management Review Meetings (MRM) under the Plan–Do–Check–Act (PDCA) framework : https://sustainability.unimus.ac.id/waste

These initiatives significantly reduce landfill dependency, conserve natural resources, promote responsible consumption, and increase environmental awareness among students, lecturers, staff, and the surrounding community. The integrated inorganic waste management program demonstrates UNIMUS' strong commitment to sustainable campus development and directly contributes to the achievement of **SDG 3 (Good Health and Well-being), SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 14 (Life Below Water), SDG 15 (Life on Land), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).**

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.10] Total volume inorganic waste produced last year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
inorganic non-toxic	100	86	14,5	33,5	23	15
Paper and Similar Products: Copy paper, exam paper, student assignment sheets Old archival paper, office documents Used cardboard (for packaging equipment/materials) Brochures, leaflets, and posters for campus activities Unused magazines, **books, or printed documents**	28	24	4	8	10	2
Soft Plastic: Plastic bags, plastic food wrap Plastic drinking cups, straws, plastic mica, and plastic lids Plastic lining for non-hazardous laboratory equipment Plastic from stationery packaging and non-infectious medical equipment	24	20	4	5	6	5
Hard Plastic: Mineral water bottles (PET, HDPE)	15	13	2	6	2	3

Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, damaged gallon jugs, and material storage containers Used food and drink containers						
Hard Plastic Mineral water bottles (PET, HDPE) : Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, broken gallon jugs, and other material storage containers Used food and drink containers	14	12	2	5	3	2
Light Metal and Cans (Metal Waste): Drink and snack cans Metal bottle caps Wire and non-contaminant light metal Leftover office equipment (metal clips, broken staplers)	9	8	1	5	1	1
Non-B3 Glass and Broken Glass : Used glass bottles for non-toxic lab materials Glass from non-chemical laboratory equipment Glass cups and jars from the cafeteria Non-mercury glass lamps	6	5	1	3	1	0
Non-Toxic Textiles and Mixed Materials: Banners or event banners (PVC, flexy) Uniforms or used fabrics/ Sacks, raffia rope, or other equipment wrapping materials	2	2	0.5	0.5	0	1

Non-B3 Small Electronics (Non-Toxic Light E-Waste) Damaged cables, adapters, mice, and keyboards Remotes, chargers, or other hazardous non-battery electronic devices	2	2	0	1	0	1

Description:
(*Please describe total inorganic waste produced last year on your campus. The following is an example of the description. You can describe more related items if needed*.)
Universitas Muhammadiyah Semarang (UNIMUS) has established a comprehensive inorganic waste management system to support the implementation of the Green Campus policy and Circular Economy principles. During 2025**,** the university generated a total of 100 tons of non-hazardous inorganic waste **from** academic, administrative, laboratory, student, and campus operational activities. All inorganic waste was systematically weighed, recorded, categorized, and monitored through the University's Environmental Management System to provide an accurate baseline for future waste reduction initiatives.

The major sources of inorganic waste consisted of 28 tons of paper and paper-based products**,** 24 tons of soft plastics**,** 15 tons of PET/HDPE bottles and rigid plastic packaging**,** 14 tons of laboratory plastic containers and other rigid plastic materials**,** 9 tons of light metals and beverage cans**,** 6 tons of non-B3 glass**,** 2 tons of textiles and mixed materials**,** and 2 tons of non-toxic electronic waste (small e-waste)**.** These waste streams were generated from classrooms, offices, laboratories, cafeterias, campus events, maintenance activities, and student facilities.

To minimize landfill disposal and maximize material recovery, UNIMUS implemented integrated waste treatment strategies through reuse, recycling (down-cycling), and up-cycling**.** During 2025, 33.5 tons of inorganic waste were reused**,** 23 tons were processed through down-cycling and recycling**,** and 15 tons were converted into higher-value products through up-cycling initiatives, resulting in a total diversion of 71.5 tons of inorganic waste from landfill disposal. Paper waste was reused and recycled into office paper and packaging materials, plastics were processed through the campus waste bank and recycling partners, banners were repurposed into reusable products, metals and glass were sold to licensed recyclers, while non-toxic electronic waste was collected and transferred to authorized recycling partners.

The 2025 data became the baseline for continuous improvement in 2026. Based on this evaluation, UNIMUS strengthened paperless administration, digital learning systems, waste segregation at source, reusable packaging campaigns, campus waste bank operations, recycling partnerships, plastic shredding facilities, and environmental awareness programs. These initiatives successfully reduced inorganic waste generation from 100 tons in 2025 to 86 tons in 2026**,** equivalent to a 14% reduction.

The performance of inorganic waste management is continuously monitored through routine weighing, Material Flow Analysis (MFA), ICT-based KPI Dashboards, monthly waste reports, internal environmental audits, and Management Review Meetings (MRM) under the Plan–Do–Check–Act

(PDCA) framework. These monitoring systems ensure continuous improvement in waste reduction, recycling performance, resource efficiency, and environmental sustainability.

Overall, the integrated inorganic waste management program demonstrates UNIMUS' commitment to sustainable campus development, responsible resource management, and circular economy implementation. The program contributes directly to **SDG 3 (Good Health and Well-being), SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 14 (Life Below Water), SDG 15 (Life on Land), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).**

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Evidence
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.11] Total volume inorganic waste treated this year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
inorganic non-toxic	100	86	14,5	33,5	23	15
Paper and Similar Products: Copy paper, exam paper, student assignment sheets Old archival paper, office documents Used cardboard (for packaging equipment/materials) Brochures, leaflets, and posters for campus activities Unused magazines, **books, or printed documents**	28	24	4	8	10	2
Soft Plastic: Plastic bags, plastic food wrap Plastic drinking cups, straws, plastic mica, and plastic lids Plastic lining for non-hazardous laboratory equipment Plastic from stationery packaging and non-infectious medical equipment	24	20	4	5	6	5
Hard Plastic: Mineral water bottles (PET, HDPE)	15	13	2	6	2	3

Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, damaged gallon jugs, and material storage containers Used food and drink containers						
Hard Plastic Mineral water bottles (PET, HDPE) : Laboratory plastic containers (non-hazardous and hazardous materials) Buckets, broken gallon jugs, and other material storage containers Used food and drink containers	14	12	2	5	3	2
Light Metal and Cans (Metal Waste): Drink and snack cans Metal bottle caps Wire and non-contaminant light metal Leftover office equipment (metal clips, broken staplers)	9	8	1	5	1	1
Non-B3 Glass and Broken Glass : Used glass bottles for non-toxic lab materials Glass from non-chemical laboratory equipment Glass cups and jars from the cafeteria Non-mercury glass lamps	6	5	1	3	1	0
Non-Toxic Textiles and Mixed Materials: Banners or event banners (PVC, flexy) Uniforms or used fabrics/ Sacks, raffia rope, or other equipment wrapping materials	2	2	0.5	0.5	0	1

Non-B3 Small Electronics (Non-Toxic Light E-Waste) Damaged cables, adapters, mice, and keyboards Remotes, chargers, or other hazardous non-battery electronic devices	2	2	0	1	0	1

Description:
(*Please describe total inorganic waste treated this year on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) implements an integrated inorganic waste treatment system as part of its Green Campus and Circular Economy initiatives. The system follows the principles of **Reduce, Reuse, Recycle (3R)**and is supported by waste segregation at source, routine waste collection, temporary storage, material recovery, waste bank operations, partnerships with licensed recycling companies, and ICT-based monitoring to maximize resource recovery while minimizing landfill disposal.

During **2026**, UNIMUS generated **86 tons of non-hazardous inorganic waste** and successfully diverted **71.5 tons (83.14%)** from final disposal through reuse, recycling (down-cycling), and up-cycling activities. Specifically, **33.5 tons**were **reused**, **23 tons** were **processed through recycling and down-cycling**, and **15 tons** were **converted into higher-value products through up-cycling initiatives**. This achievement demonstrates the University's strong commitment to resource efficiency and sustainable waste management.

The inorganic waste treated consisted of **24 tons of paper and paper-based materials**, **20 tons of soft plastics**, **13 tons of PET/HDPE bottles and rigid plastics**, **12 tons of laboratory plastic containers and other rigid plastic materials**, **8 tons of light metals and beverage cans**, **5 tons of non-B3 glass**, **2 tons of textiles and mixed materials**, and **2 tons of non-toxic electronic waste (small e-waste)**. Each waste stream was managed using the most appropriate recovery method based on its material characteristics and recycling potential.

The implementation of these programs has contributed to significant environmental benefits, including reduced landfill dependency, conservation of natural resources, increased recycling performance, lower greenhouse gas emissions, and enhanced environmental awareness among students, lecturers, staff, and the surrounding community. Furthermore, the program supports the achievement of **SDG 3 (Good Health and Well-being), SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 14 (Life Below Water), SDG 15 (Life on Land), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals)**

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.12] Inorganic Waste Treatment (WS.4)





Plastic waste collection



Unimus Banner Warehouse



Plastic Shredder Machine (1)



Plastic Shredder Machine (1)



Plastic Waste Processing (2)



Plastic Waste Processing (3)



Collection And Sorting Of Plastic Waste



Plastic Waste Grinding



Weighing of plastic waste banks



Packaging of plastic shreds



Plastic processed products



Partnership with Authorized Waste Contractors

Waste Treatment UNIMUS (Inorganic)

Description:

(*Please describe the program to treat inorganic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) implements an integrated Inorganic Waste Treatment Program as part of the Green Campus initiative. The program focuses on reducing, sorting, reusing, recycling, and up-cycling non-hazardous inorganic waste generated from academic, administrative, laboratory, student, and campus operational activities.

The treatment process begins with waste segregation at source, where paper, plastic, metal, glass, textile, banner, and non-toxic electronic waste are separated using designated collection points.

Recyclable inorganic waste is then collected, weighed, sorted, recorded, and transported to the UNIMUS Waste Bank and temporary storage area for further treatment.
Plastic waste is processed through several stages, including collection, sorting, cleaning, shredding using a plastic shredder machine, weighing, packaging, and storage. The shredded plastic materials are then reused, recycled, or transferred to recycling partners for further processing. Used banners and PVC materials are stored in the UNIMUS Banner Warehouse and reused or up-cycled into useful products and educational materials. Paper, cardboard, glass, metal, and non-toxic e-waste are also managed through reuse, recycling, and authorized partner handover mechanisms.
The evidence shows several inorganic waste treatment activities at UNIMUS, including plastic waste collection, banner warehouse management, plastic shredder machines, plastic waste processing, sorting, grinding, weighing at the waste bank, packaging of plastic shreds, processed plastic products, and partnership with authorized waste contractors.

In 2026, UNIMUS generated **86 tons of non-hazardous inorganic waste**, with **33.5 tons reused**, **23 tons down-cycled**, and **15 tons up-cycled**, resulting in **71.5 tons of inorganic waste treated** through resource recovery activities. These initiatives support waste reduction, landfill diversion, circular economy implementation, and environmental education for students, staff, and the campus community. UNIMUS continuously monitors the inorganic waste treatment program through waste weighing records, documentation, KPI dashboards, internal evaluation, and cooperation with authorized waste management partners. **The program supports SDG 11, SDG 12, SDG 13, SDG 15, and SDG 17**

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.13] Total volume toxic waste produced this year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year	This Year		reused	down-cycled	up-cycled
toxic	2.8	1.75	0.19	0	0	0
Chemical and Biochemical Laboratory Waste: Remains of hazardous chemicals (HCl, H_2SO_4, NaOH, formalin, ethanol, acetone)	0.3	0.27	0.03	0	0	0
Biological/Infectious Waste: Leftover biological specimens (blood, tissue, feces, urine, sputum, etc.), Culture media and microorganism test results from student labs, used cotton swabs, gloves, masks, and pipettes from biological testing activities.	0.5	0.45	0.05	0	0	0
Waste from Teaching Hospitals/Healthcare Units: Used syringes, syringes, infusion sets, medical gloves, cotton and gauze Infusion bottles, used glass vials for injectable medications Sharps waste from medical procedures by interns or nurses	0.7	0.63	0.07	0	0	0

Liquid medical waste from clinical practice rooms						
Hazardous Electronic Waste (E-waste B3): Used batteries (AA, AAA, laptop, cell phone, and portable lab equipment) Neon/fluorescent lamps (contain mercury) Damaged computers or monitors (contain heavy metals Pb, Cd) Used printer cartridges and ink	0.16	0.15	0.01	0	0	0
Cleaning and Disinfectant Waste: Disinfectant fluids (NaOCl, alcohol >70%, Lysol, etc.) Remaining laboratory detergents and equipment cleaners containing active chemicals Tissue preservatives and fixatives	0.28	0.25	0.028	0	0	0

Description:
(*Please describe total toxic waste treated this year on your campus. The following is an example of the description. You can describe more related items if needed*.)

In 2025, Universitas Muhammadiyah Semarang (UNIMUS) produced a total of 1.94 tons of toxic waste, showing a reduction from 2.8 tons recorded in the previous year. The decline reflects the university's continuous efforts to strengthen hazardous waste management, promote green laboratory practices, and ensure the safe handling of chemical and biological materials across all faculties.
The toxic waste generated this year consisted of several main categories:

1. **Chemical and Biochemical Laboratory Waste (0.03 tons):**
   Originated from laboratory experiments involving acids, bases, solvents, and chemical reagents such as HCl, H_2SO_4, NaOH, ethanol, and formalin. A small portion (0.01 tons) was neutralized or reused for educational demonstrations under controlled conditions, while the remainder was safely stored and transported to licensed hazardous waste facilities.
2. **Biological and Infectious Waste (0.05 tons):**
   Generated from microbiology, parasitology, and biomedical laboratories, including specimens, culture media, and contaminated materials such as gloves and masks. Approximately 0.02 tons were sterilized through autoclaving before disposal, ensuring compliance with biosafety standards.
3. **Hospital and Medical Waste (0.07 tons):**
   Derived from the UNIMUS teaching hospital and clinical training units, including syringes, infusion sets, cotton, and sharp wastes. Around 0.05 tons were reduced through strict segregation and

collection systems, while the rest was treated by third-party licensed contractors using incineration and sterilization processes.

4. **Electronic Hazardous Waste (0.01 tons):**
   Included batteries, fluorescent lamps, and damaged electronic devices containing heavy metals (Pb, Cd, Hg). About 0.07 tons were collected and recycled through cooperation with authorized e-waste handlers to recover reusable components.
5. **Cleaning Agents and Disinfectant Waste (0.028 tons):**
   Generated from laboratory and facility sanitation activities. Approximately 0.15 tons were treated through neutralization and dilution methods under laboratory supervision to minimize environmental contamination.

UNIMUS ensures that all hazardous and toxic waste is handled in accordance with environmental and safety regulations issued by the Ministry of Environment and Forestry. Waste segregation, temporary storage in the Hazardous Waste Storage Facility (TPS Limbah B3), and disposal via licensed third-party waste treatment companies are standard procedures across the campus.

The reduction in total toxic waste demonstrates the university's commitment to promoting sustainable laboratory management, enhancing awareness among staff and students, and supporting Sustainable **Development Goals (SDG) 12 – Responsible Consumption and Production and SDG 13 – Climate Action.**

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.14] Total volume toxic waste produced last year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
toxic	2.8	1.75	0.19	0	0	0
Chemical and Biochemical Laboratory Waste: Remains of hazardous chemicals (HCl, H_2SO_4, NaOH, formalin, ethanol, acetone)	0.3	0.27	0.03	0	0	0
Biological/Infectious Waste: Leftover biological specimens (blood, tissue, feces, urine, sputum, etc.), Culture media and microorganism test results from student labs, used cotton swabs, gloves, masks, and pipettes from biological testing activities.	0.5	0.45	0.05	0	0	0
Waste from Teaching Hospitals/Healthcare Units: Used syringes, syringes, infusion sets, medical gloves, cotton and gauze Infusion bottles, used glass vials for injectable medications	0.7	0.63	0.07	0	0	0

Sharps waste from medical procedures by interns or nurses Liquid medical waste from clinical practice rooms						
Hazardous Electronic Waste (E-waste B3): Used batteries (AA, AAA, laptop, cell phone, and portable lab equipment) Neon/fluorescent lamps (contain mercury) Damaged computers or monitors (contain heavy metals Pb, Cd) Used printer cartridges and ink	0.16	0.15	0.01	0	0	0
Cleaning and Disinfectant Waste: Disinfectant fluids (NaOCl, alcohol >70%, Lysol, etc.) Remaining laboratory detergents and equipment cleaners containing active chemicals Tissue preservatives and fixatives	0.28	0.25	0.028	0	0	0

Description:
(*Please describe total toxic waste produced last year on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) implements a controlled and regulation-based hazardous and toxic waste management system to ensure that all toxic waste generated from laboratories, health facilities, teaching hospital activities, and campus sanitation practices is properly identified, segregated, recorded, stored, and transferred to licensed third-party waste management providers.

In **2025**, UNIMUS generated a total of **2.8 tons of toxic waste**. This volume became the baseline for strengthening hazardous waste reduction, green laboratory practices, chemical substitution, medical waste segregation, and safe handling procedures across campus units. In **2026**, the total toxic waste generated decreased to **1.75 tons**, showing a significant reduction of approximately **1.05 tons** compared with the previous year.

The toxic waste generated in 2025 consisted of several categories, including **0.30 tons of chemical and biochemical laboratory waste**, **0.50 tons of biological and infectious waste**, **0.70 tons of teaching hospital and healthcare unit waste**, **0.16 tons of hazardous electronic waste**, and **0.28 tons**

of cleaning and disinfectant waste. These waste streams originated from laboratory experiments, biological testing activities, clinical practice rooms, teaching hospital operations, sanitation activities, and electronic equipment maintenance.

UNIMUS does not conduct final treatment of hazardous and toxic waste internally. Instead, all toxic waste is managed through a safe and compliant process consisting of source segregation, labeling, weighing, temporary storage in designated hazardous waste storage facilities, documentation, and handover to an authorized third-party hazardous waste management company. This approach ensures that hazardous chemical waste, infectious waste, medical waste, hazardous e-waste, and disinfectant residues are handled responsibly and in accordance with applicable environmental and occupational health and safety requirements.

The reduction of toxic waste from **2.8 tons in 2025** to **1.75 tons in 2026** was achieved through improved chemical inventory control, reduced use of hazardous reagents, better laboratory planning, safer biological waste handling, improved medical waste segregation, controlled use of disinfectants, and regular awareness programs for laboratory staff, students, and healthcare personnel. In 2026, UNIMUS recorded **0.19 tons of toxic waste reduction**, while no toxic waste was classified as reused, down-cycled, or up-cycled because hazardous waste requires specialized treatment by licensed external providers.

To strengthen governance and compliance, UNIMUS maintains supporting evidence such as hazardous waste SOPs, laboratory waste logbooks, temporary storage documentation, weighing records, waste manifests, handover reports, vendor cooperation documents, staff training records, internal audit reports, and Management Review Meeting records. These documents demonstrate that toxic waste management at UNIMUS is implemented through a traceable, accountable, and continuous improvement-based system.

The toxic waste management program supports **SDG 3 – Good Health and Well-being**, **SDG 6 – Clean Water and Sanitation**, **SDG 11 – Sustainable Cities and Communities**, **SDG 12 – Responsible Consumption and Production**, **SDG 13 – Climate Action**, **SDG 16 – Peace, Justice and Strong Institutions**, and **SDG 17 – Partnerships for the Goals**.

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.15] Total volume toxic waste treated this year

Type of waste	amount (ton)					
	Produced		reduced	Treated		
	Last year (2025)	This Year (2026)		reused	down-cycled	up-cycled
toxic	2.8	1.75	0.19	0	0	0
Chemical and Biochemical Laboratory Waste: Remains of hazardous chemicals (HCl, H_2SO_4, NaOH, formalin, ethanol, acetone)	0.3	0.27	0.03	0	0	0
Biological/Infectious Waste: Leftover biological specimens (blood, tissue, feces, urine, sputum, etc.), Culture media and microorganism test results from student labs, used cotton swabs, gloves, masks, and pipettes from biological testing activities.	0.5	0.45	0.05	0	0	0
Waste from Teaching Hospitals/Healthcare Units: Used syringes, syringes, infusion sets, medical gloves, cotton and gauze Infusion bottles, used glass vials for injectable medications	0.7	0.63	0.07	0	0	0

Sharps waste from medical procedures by interns or nurses Liquid medical waste from clinical practice rooms						
Hazardous Electronic Waste (E-waste B3): Used batteries (AA, AAA, laptop, cell phone, and portable lab equipment) Neon/fluorescent lamps (contain mercury) Damaged computers or monitors (contain heavy metals Pb, Cd) Used printer cartridges and ink	0.16	0.15	0.01	0	0	0
Cleaning and Disinfectant Waste: Disinfectant fluids (NaOCl, alcohol >70%, Lysol, etc.) Remaining laboratory detergents and equipment cleaners containing active chemicals Tissue preservatives and fixatives	0.28	0.25	0.028	0	0	0

Description:
(*Please describe total toxic waste treated this year on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) implements a comprehensive hazardous (toxic) waste management system to ensure that all hazardous waste generated from academic, research, healthcare, and campus operational activities is managed safely and in full compliance with Indonesian environmental regulations. The system follows the principles of **identification, segregation, labeling, weighing, temporary storage, documentation, transportation, and final treatment by licensed hazardous waste management companies**.
During **2026**, UNIMUS generated **1.75 tons of hazardous (toxic) waste**, consisting of chemical laboratory waste, biological and infectious waste, teaching hospital and healthcare waste, hazardous electronic waste (B3 e-waste), and cleaning and disinfectant waste. Through Green Laboratory initiatives, chemical inventory management, laboratory optimization, waste segregation, and awareness programs, UNIMUS successfully reduced hazardous waste generation by **0.19 tons** compared with the baseline year.

As UNIMUS does not operate its own hazardous waste treatment facility, **100% of hazardous waste is managed through partnerships with licensed hazardous waste management companies, namely PT ARAH** After segregation and temporary storage in the designated Hazardous Waste Temporary Storage Facility (TPS B3), all hazardous waste is weighed, recorded, labeled, documented through waste manifests, and transported by licensed hazardous waste transporters to PT ARAH and PT WASTEC for final treatment, recovery, or environmentally sound disposal in accordance with national regulations.

MoU/PKS dengan PT ARAH :
https://drive.google.com/file/d/1w1gEUlWMIekgHX9HrNQ_BGo7dBwxPwza/view?usp=sharing

Supporting documents include Standard Operating Procedures (SOPs), hazardous waste inventories, laboratory logbooks, weighing records, waste manifests, temporary storage records, transportation documents, contracts and cooperation agreements with **PT ARAH** internal audit reports, Management Review Meeting minutes, staff training records, and comprehensive photo documentation.
The implementation of this integrated hazardous waste management program ensures that **100% of hazardous waste generated by UNIMUS is handled safely by licensed hazardous waste treatment facilities**, preventing environmental contamination and protecting public health while maintaining full regulatory compliance.
This program contributes directly to the achievement of **SDG 3 (Good Health and Well-being), SDG 6 (Clean Water and Sanitation), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 16 (Peace, Justice and Strong Institutions), and SDG 17 (Partnerships for the Goals).**

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.16] Toxic Waste Treatment (WS.5)



TOXIC WASTE TREATMENT



WASTE TREATMENT (2)


ARAH
PT. ARAH ENVIRONMENTAL INDONESIA
www.arahenvironmental.com
0813-1111-6800
Emergency Call : 0822-9888-1990








Toxic Waste Treatment (Muhammadiyah University, Semarang)

Description:

(*Please describe the program to treat toxic waste on your campus. The following is an example of the description. You can describe more related items if needed*.)

1. **Segregation and Labeling at the Source**
   All hazardous wastes (chemical, biological, and medical) are **segregated at the point of generation** in laboratories and hospital units. Each waste container is **clearly labeled** according to its type (acidic, flammable, toxic, infectious) and packed following KLHK standards.
2. **Temporary Hazardous Waste Storage (TPS Limbah B3)**
   UNIMUS operates a dedicated **Hazardous Waste Temporary Storage Facility (TPS B3)** located within the main campus. This facility is equipped with safety signage, containment systems, and ventilation. Waste from various faculties is collected and stored temporarily before being transferred to PT ARAH Lingkungan for further treatment.
3. **Partnership with PT ARAH Lingkungan (Licensed B3 Handler)**
   PT ARAH Environmental Indonesia is the licensed third-party partner that handles the treatment of toxic and hazardous waste (B3 waste) from Universitas Muhammadiyah Semarang (UNIMUS). The waste management process complies with the requirements of ISO 9001:2015 (Quality Management), ISO 14001:2015 (Environmental Management), ISO 45001:2018 (Occupational Health and Safety), and relevant Indonesian environmental regulations issued by the Ministry of Environment and Forestry (KLHK).
   The treatment process at PT ARAH is carried out using a high-temperature incineration system that ensures the complete destruction and neutralization of hazardous substances, while minimizing environmental impact.
   a. Waste Preparation (Pre-Incineration Handling) : Before burning, the B3 waste is prepared, sorted, and recorded:
      1) Each type of hazardous waste (chemical, biological, medical, or e-waste) is segregated on racking pallets according to its category.

2) Waste is weighed and logged using a Tallysheet (FM.AEI.116) and tion Form (FM.AEI.PLK-PROD-04).
3) Operators use full Personal Protective Equipment (PPE) including respirators, gloves, aprons, and safety boots to ensure safe handling.
4) Waste packaging integrity is checked — no leaks or damages are allowed before feeding the incinerator.

b. Waste Composition and Loading
The next step is to regulate the composition and quantity of waste that enters the incinerator:
1) The waste is placed on the incinerator platform and weighed according to the combustion chamber capacity.
2) The operator adjusts the mixture of waste types to ensure efficient combustion and balanced heat generation.
3) The waste is manually fed into the ram feeder once the combustion chambers reach the required temperature.

c. Incineration Operation (Combustion Process)
The core of PT ARAH's process involves two-stage incineration under controlled high-temperature conditions:
1) Primary chamber operates at 800–1,000°C, and Secondary chamber operates at 1,000–1,200°C.
2) Waste is introduced gradually to maintain temperature stability.
3) The operator continuously monitors and records temperatures, smoke conditions, and ash quality every 10 minutes using the Operational Log Form (FM.AEI.PLK-PROD-04).
4) Emissions and combustion efficiency are observed to ensure compliance with environmental standards.
5) This high-temperature dual combustion ensures that toxic organic compounds, pathogens, and hazardous chemicals are fully destroyed or rendered inert.

d. Post-Treatment Management (Ash and Residue Handling)
After combustion:
1) The remaining ash (incineration residue) and wastewater treatment sludge (WWTP cake) are collected and managed in accordance with SOP AEI.PLK-PROD-03.
2) These residues are temporarily stored in a secured hazardous residue storage area before being sent to a final disposal site licensed by the Ministry of Environment.
3) Records of all waste quantities and treatment results are maintained for audit and regulatory reporting.

4. **Chemical and Laboratory Waste Treatment**
Low-risk chemical waste is **neutralized** in the laboratory before disposal. For example, acid and base wastes undergo pH neutralization, and solvents are reused for laboratory teaching where feasible.
5. **Biological and Infectious Waste Treatment**
Medical and biological wastes from the Faculty of Medicine, Faculty of Health Sciences, and Teaching Hospital are sterilized using **autoclaving or disinfection** before being packed and sent to PT ARAH Lingkungan for incineration.
6. **Electronic and Hazardous Equipment Waste (E-waste)**
Broken laboratory instruments, fluorescent lamps, and batteries containing heavy metals are collected and sent to **authorized e-waste recovery facilities** to prevent contamination.
7. **Documentation, Monitoring, and Training**
Each faculty is required to record waste volume, type, and disposal frequency in the university's **Environmental Monitoring Logbook**. The Environmental Safety Unit conducts regular **training on waste handling and emergency response** for staff and laboratory assistants.
8. **Integration with Green Campus Policy**
This program aligns with UNIMUS's *Green Campus Policy* under the "Sustainable Waste Management" pillar and directly contributes to **SDG 12 (Responsible Consumption and Production)** and **SDG 13 (Climate Action)**.

Template for Evidence(s)
UI GreenMetric Questionnaire

University : University of Muhammadiyah Semarang
Country : Semarang, Central of Java, Indonesia
Web Address : https://unimus.ac.id

[3] Waste (WS)

[3.17] Sewage Disposal (WS.6)



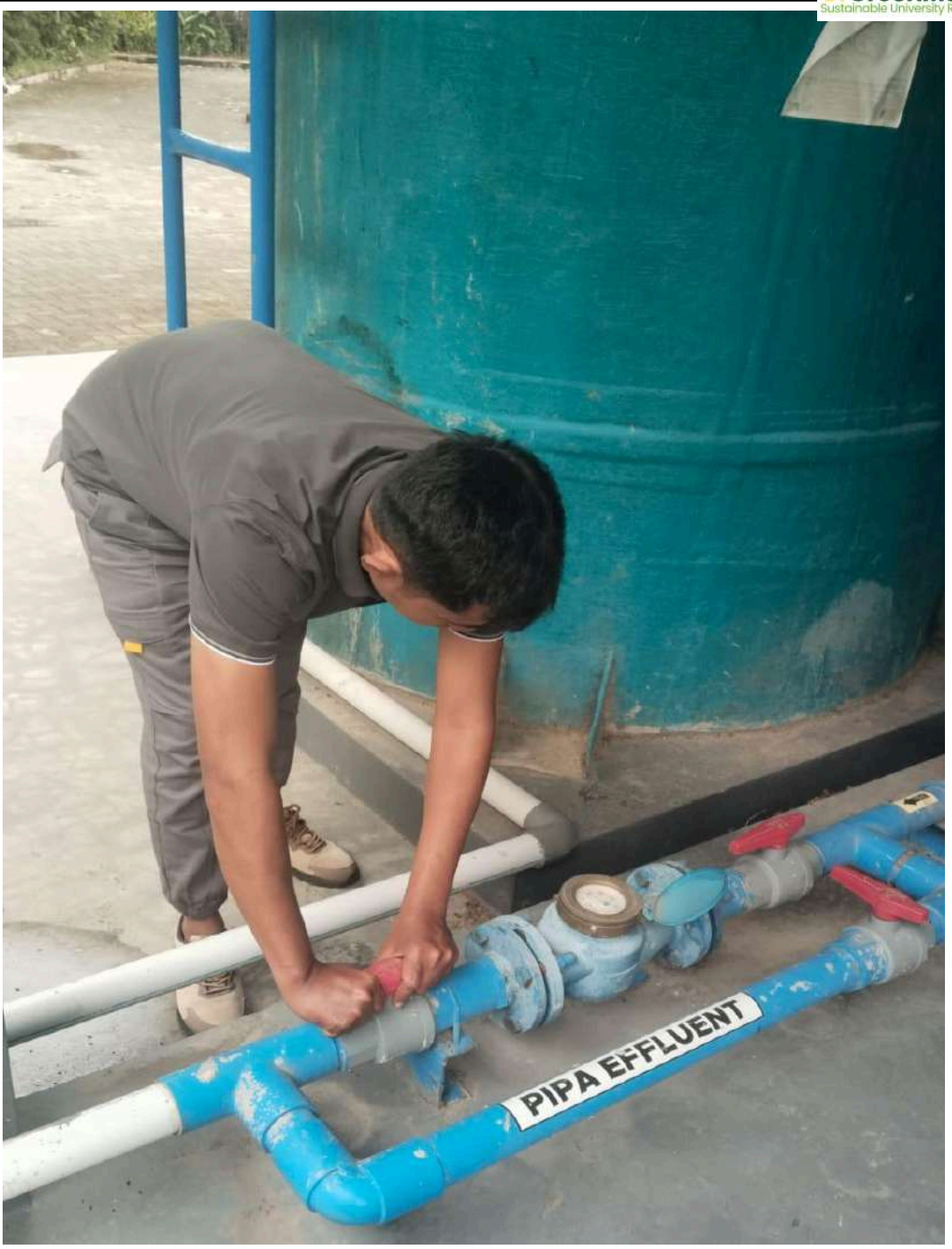
SEWAGE DISPOSAL (1)



SEWAGE DISPOSAL (2)



SEWAGE DISPOSAL (3)



PIPA EFFLUENT



The condition of live fish using IPAL works well, there is no water pollution





IPAL conditions at Unimus



Waste checks by the Environmental Agency (DLH) once a month to ensure it is not contaminated when disposed of in water bodies.

Sewage Disposal

Description:

(*Please describe the sewage disposal on your campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) manages its **sewage and wastewater disposal** through a centralized **Wastewater Treatment Plant (WWTP/IPAL)** system to ensure that all liquid waste from laboratories, dormitories, canteens, and the teaching hospital is treated before being released into the environment.

The IPAL system is designed to comply with the national standard of water quality discharge (Peraturan Menteri LHK No. 68 Tahun 2016) and aims to minimize environmental pollution, promote water reuse, and support campus sustainability.

Stages of IPAL Process at UNIMUS HOSPITAL

1. **Preliminary Treatment (Screening and Equalization)**
    a. Wastewater from various campus sources (toilets, laboratories, canteens, and hospitals) first passes through a **screening unit** to remove large solids such as plastics, paper, and food residues.
    b. The flow then enters the **equalization tank**, where the wastewater volume and concentration are stabilized before further processing.
2. **Primary Treatment (Sedimentation)**
    a. In this stage, wastewater enters a **sedimentation tank** to separate suspended solids and sludge from the liquid phase.
    b. The heavier organic and inorganic materials settle at the bottom and are collected periodically as **primary sludge** for further handling.
3. **Secondary Treatment (Biological Treatment)**
    a. The clarified liquid flows into the **aeration tank**, where microorganisms (activated sludge) biologically decompose organic pollutants.
    b. Oxygen is supplied using blowers or diffusers to support microbial activity.
    c. The effluent then passes into a **secondary clarifier**, allowing biological flocs to settle, producing treated water and secondary sludge.
4. **Tertiary Treatment (Filtration and Disinfection)**
    a. The treated wastewater is further refined through **sand filtration and activated carbon filters** to remove fine particles and odor.
    b. The final stage involves **disinfection using chlorine or UV** to eliminate harmful bacteria before the water is discharged.
5. **Sludge Management and Reuse**
    a. The sludge collected from sedimentation and clarification tanks is thickened and stabilized.
    b. Dried sludge is used as an **organic soil conditioner** in green campus areas, following safety standards.
6. **Effluent Reuse**
    a. Treated water from IPAL is reused for **gardening, irrigation, and toilet flushing** around campus facilities.
    b. Regular **water quality testing** is conducted to ensure compliance with environmental discharge standards BOD (Biological Oxygen Demand), COD (Chemical Oxygen Demand), TSS (**Total Suspended Solids)**, pH.

Monitoring and Supervision

- The IPAL unit is operated by the **Teaching Hospital**
- Regular sampling and analysis are conducted at the university's laboratory to ensure compliance with **regulations**.
- Periodic maintenance and operator training are carried out to maintain optimal system performance.

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[3] Waste (WS)

[3.18] Planning, implementation, monitoring and/or evaluation of all programs related to Waste Management through the utilization of Information and Communication Technology (ICT) (WS.7)



WASTE COLLECTION



KPI DASHBOARD

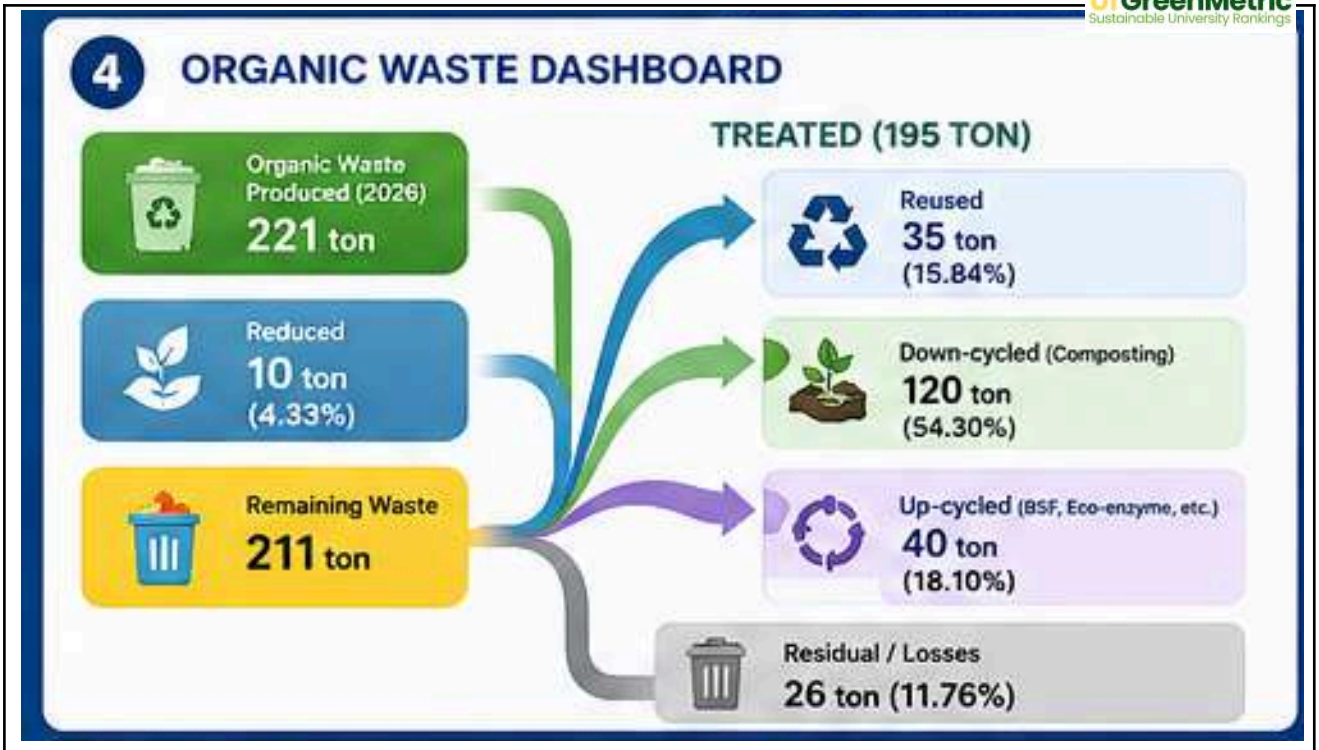


3 KPI SCORECARD

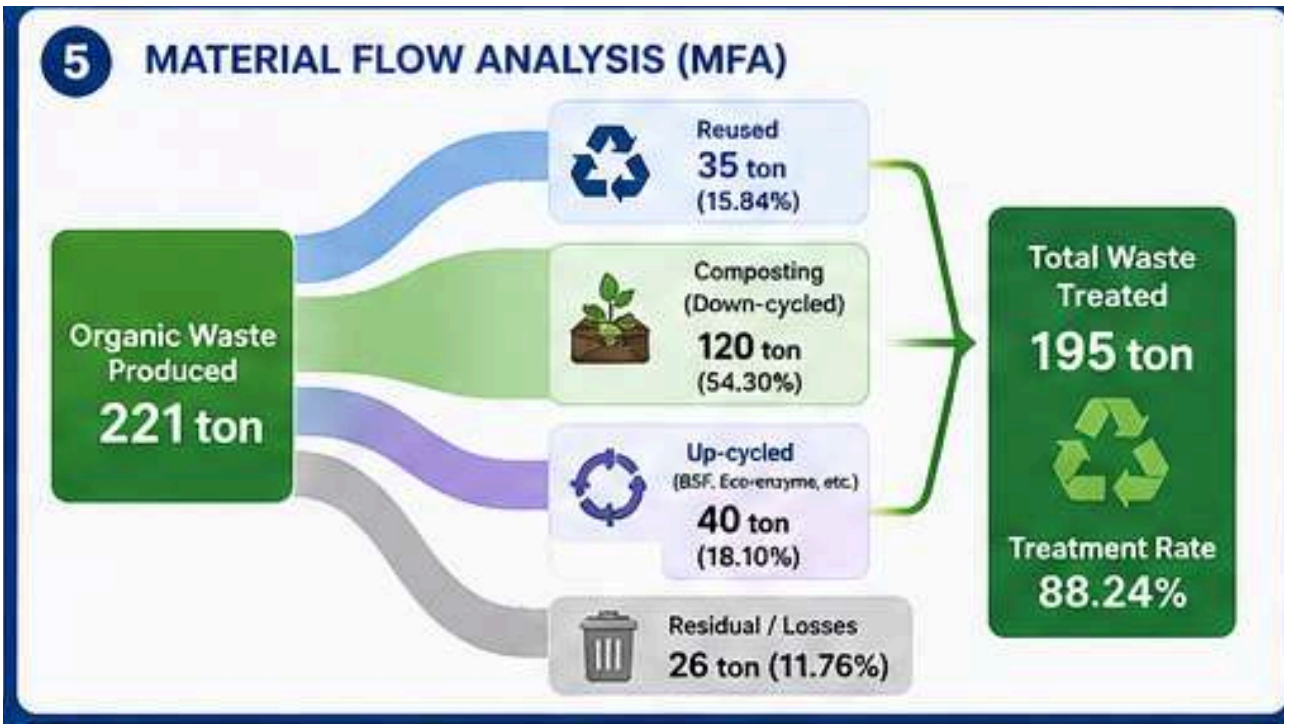
KPI	TARGET	ACHIEVEMENT (2026)	STATUS
1. Organic Waste Produced	≤ 230 ton	221 ton	Achieved
2. Organic Waste Reduction	≥ 4%	10 ton (4.33%)	Achieved
3. Organic Waste Treated (Treatment Rate)	≥ 85%	88.24%	Achieved
4. Compost Production	≥ 45 ton	48 ton	Achieved
5. Compost Utilization	100%	100%	Achieved
6. BSF & Up-cycling Program	Operational	Operational	Achieved
7. Documentation & Monitoring	Complete	Complete	Achieved

Achieved In Progress Not Achieved

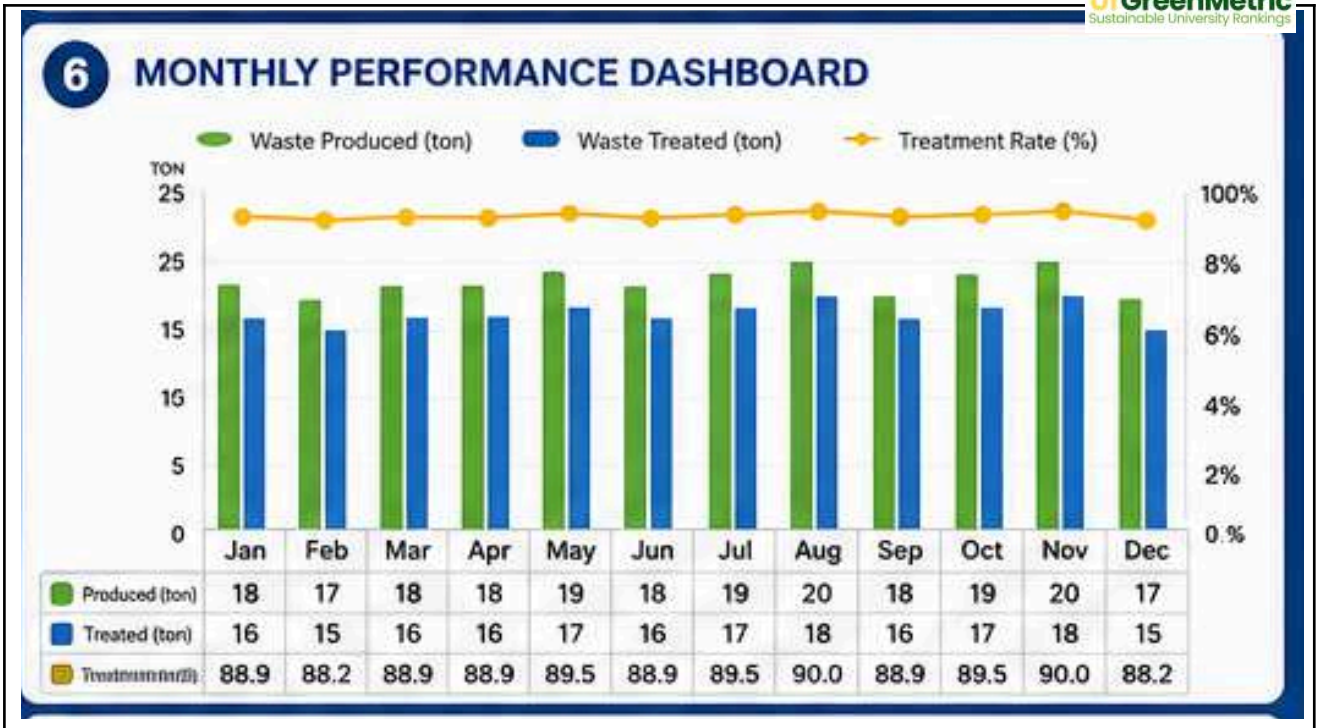
KPI SCORECARD



ORGANIC WASTE DASHBOARD



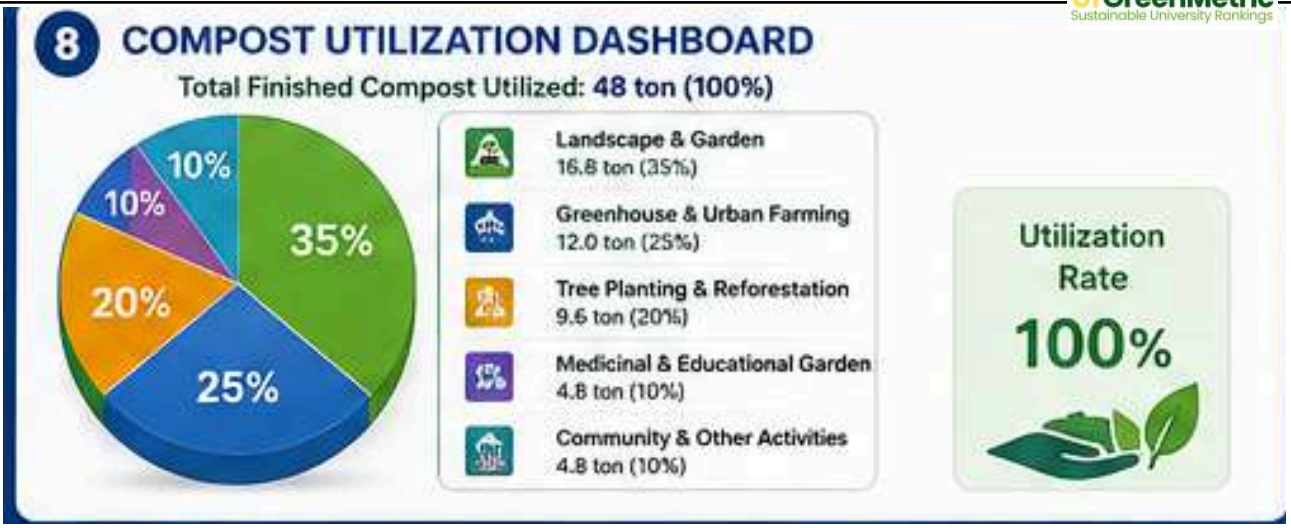
MATERIAL FLOW ANALYSIS



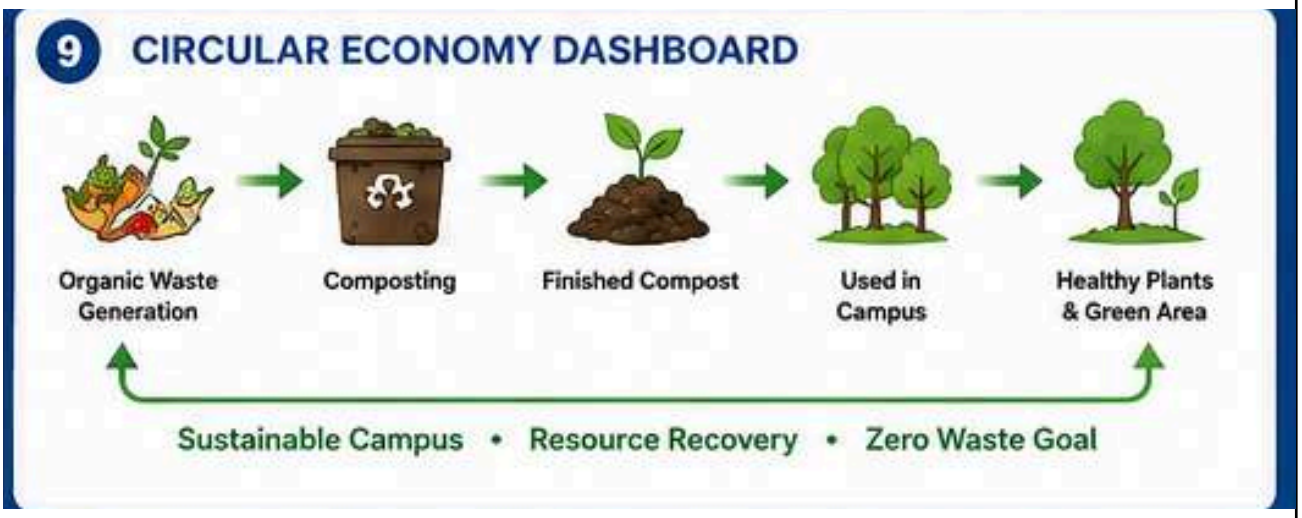
MONTHLY PERFORMANCE DASHBOARD



COMPOST PRODUCTION DASHBOARD



COMPOST UTILIZATION DASHBOARD



ECONOMY DASHBOARD



ENVIRONMENTAL IMPACT DASHBOARD



SDGs CONTRIBUTION DASHBOARD

Smart waste bins with real-time tracking software to monitor waste collection

Description:

(*Please describe planning, implementation, monitoring and/or evaluation of all programs related to Waste Management through the utilization of Information and Communication Technology (ICT). You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) integrates Information and Communication Technology (ICT) into the planning, implementation, monitoring, evaluation, and continuous improvement of its campus waste management programs. The digital platform supports data-driven decision-making by recording waste generation, treatment, recycling performance, compost production, utilization, and environmental impacts in real time.

The UNIMUS Green Campus Waste Information System consists of several integrated digital dashboards, including the Executive KPI Dashboard, KPI Scorecard, Organic Waste Dashboard, Material Flow Analysis (MFA), Monthly Performance Dashboard, Compost Production Dashboard, Compost Utilization Dashboard, Circular Economy Dashboard, Environmental Impact Dashboard, and SDGs Contribution Dashboard. These dashboards provide comprehensive monitoring of waste management performance, allowing university leaders and operational units to evaluate achievements against annual targets and identify opportunities for continuous improvement.

Organic waste generated from cafeterias, landscape maintenance, laboratories, and campus activities is digitally recorded and monitored throughout the treatment process, including composting, Black Soldier Fly (BSF) processing, eco-enzyme production, and other resource recovery activities. The system also tracks inorganic waste collection, waste bank activities, hazardous waste management, and wastewater treatment to ensure compliance with environmental regulations and institutional sustainability policies.

The digital monitoring platform supports the implementation of the Plan–Do–Check–Act (PDCA) cycle through periodic reporting, KPI evaluation, internal audits, management reviews, and evidence-based corrective actions. Monthly and annual reports generated by the system enable continuous performance assessment and strengthen institutional transparency and accountability.

The implementation of ICT-based waste management has significantly improved operational efficiency, data accuracy, reporting quality, and strategic decision-making. **The platform also supports the achievement of Sustainable Development Goals (SDGs), particularly SDG 3 (Good Health and Well-being), SDG 6 (Clean Water and Sanitation), SDG 7 (Affordable and Clean Energy), SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), SDG 13 (Climate Action), SDG 15 (Life on Land), and SDG 17 (Partnerships for the Goals).**

Further information regarding UNIMUS Green Campus waste management programs, digital monitoring systems, performance dashboards, reports, and supporting evidence is available at: https://sustainability.unimus.ac.id/waste

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.1] Total area on campus for water absorption besides the forest and planted vegetation (meter^2) (WR.1)

<table>
<tr><td>  </td><td>  </td></tr>
<tr><td>Parks and grass-block use in parking areas</td><td>Use of paving blocks on every road section</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td colspan="2">Preparation of Infiltration Wells</td></tr>
<tr><td colspan="2">Total area on campus for water absorption besides the forest and planted vegetation
(Universitas Muhammadiyah Semarang, Indonesia)</td></tr>
</table>



Site Plan at Universitas Muhammadiyah Semarang

Description:
Paving blocks are used on every road, building yard, and parking lot at Muhammadiyah University Semarang. These paving blocks are used to absorb rainwater beside the forest and planted vegetation.

Total Campus Area	:	212.834,00	m2
Total Base Building Area	:	21.177,92	m2
Total Concrete Block		31.604,18	m2
Total Area of The Forest and Planted Vagetation	:	160.051,91	m2
Percentage area on campus for water absorption	**:**	**90,04 %**	

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.2] Water Conservation Program Implementation (WR.2)

<table>
<tr><td colspan="2"> 
</td></tr>
<tr><td colspan="2">1. Provision of large green open land</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td>2. The use of road and parking hardeners that can absorb rainwater with paving and paving grass blocks</td><td>3. Reservoir of Rainwater Infiltration of University of Muhammadiyah Semarang</td></tr>
</table>





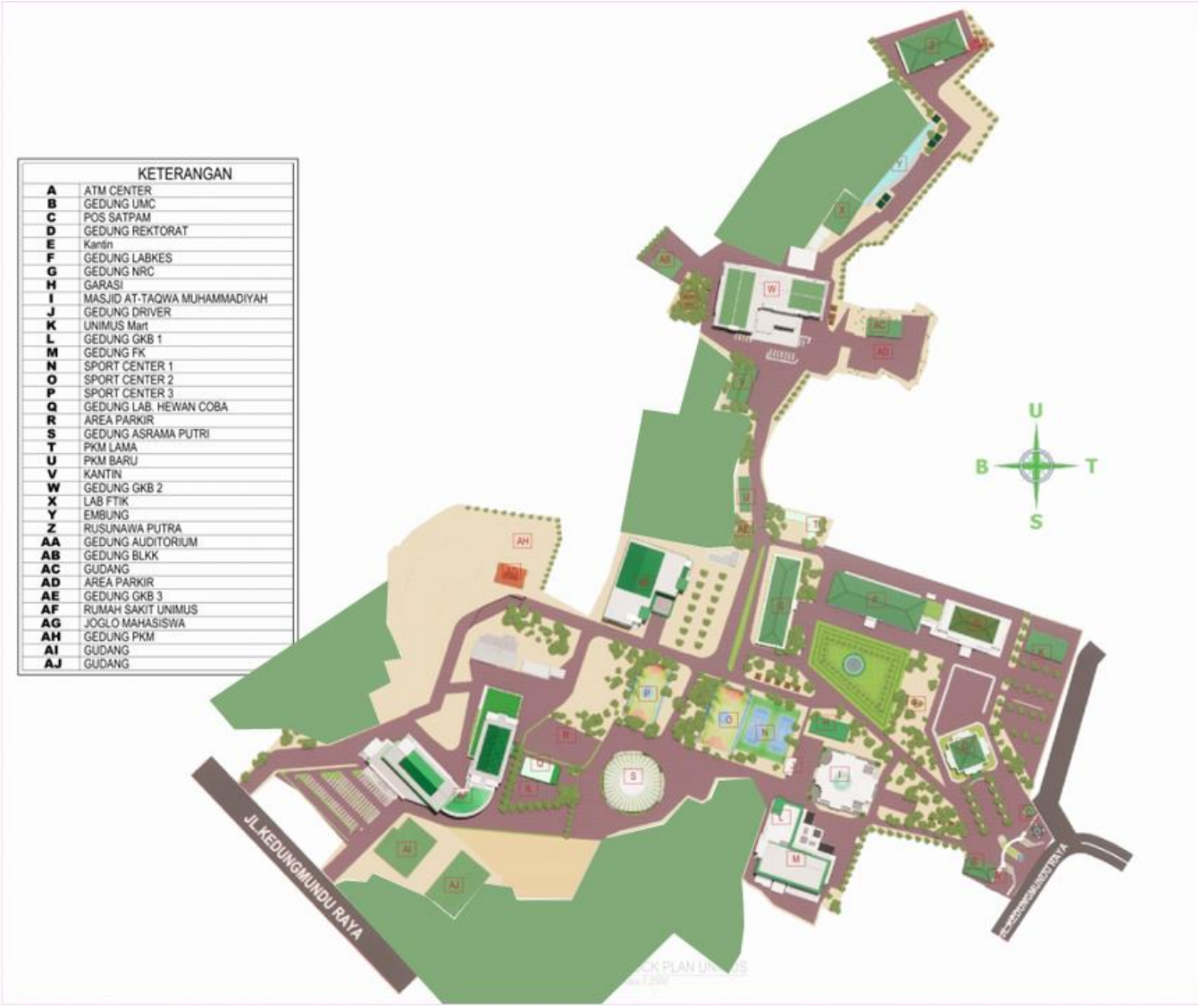

4. Preparation of Infiltration Wells








5. Integrated Waste Drainage and Treatment System in Each Campus Building



Site Plan Universitas Muhammadiyah Semarang

Universitas Muhammadiyah Semarang (UNIMUS) has a high commitment to maintaining the sustainability of water resources and supporting the achievement of the Sustainable Development Goals (SDG 6 – Clean Water and Sanitation) through various water conservation programs in the campus environment. This effort is carried out by

integrating aspects of green infrastructure, water management technology, and environmental education into campus operational activities. The following is a description of the programs that have been implemented:

1. Provision of large green open land.
   UNIMUS provides various green open spaces (RTH) areas in the campus environment as an important part of the water conservation system. This area includes parks, green paths, and vegetation around the building that serves to increase water absorption into the soil and reduce rainwater runoff.
   Plants planted in the green area of the campus also play a role in maintaining soil moisture, filtering air pollutants, and creating a cool and comfortable microclimate for the academic community. Thus, green open spaces double as ecological and educational elements, demonstrating UNIMUS's commitment to a sustainable campus.
2. The use of road and parking hardeners that can absorb rainwater with paving and paving grass blocks.
   To support natural water absorption, UNIMUS uses porous pavement materials such as paving blocks and paving grass rock in road and parking areas.
   This material allows rainwater to seep directly into the soil through the gaps between the surfaces, thus reducing inundation and surface runoff. In addition, the use of these materials also helps recharge groundwater reserves (recharge) and supports the campus's natural drainage system.
   This step is part of the eco-campus design innovation that is applied in every construction and renovation of campus facilities.
3. The creation of a reservoir where rainwater is channeled and infused in a channel, and is accommodated in an artificial reservoir, and is diffused.
   UNIMUS built an artificial reservoir as a means of collecting rainwater from the roofs of buildings and open areas. The rainwater that flows into the reservoir will go through a process of natural filtration and sedimentation, then be absorbed into the soil or reused for non-potable activities such as garden watering and campus area cleanliness.
   This reservoir not only functions as a container for water conservation but also as a means of learning and research for students, especially in the fields of environmental engineering and civil engineering. Thus, this program contributes to Integrated Water Resources Management in the campus environment.
4. Manufacture of infiltration wells.
   To strengthen the groundwater conservation system, UNIMUS built some infiltration wells at various strategic points on campus. These wells serve to collect rainwater and return it to the deep soil layer, thus maintaining the balance of groundwater reserves and preventing local flooding.
   Infiltration wells also help stabilize the hydrological conditions of the area, maintain soil moisture, and reduce the temperature of the surrounding environment. This program demonstrates UNIMUS' concern for sustainable water management and is oriented towards the balance of the campus ecosystem.
5. Integrated Waste Drainage and Treatment System in Each Campus Building.
   Each building in UNIMUS has been equipped with a separate drainage system for rainwater and domestic wastewater. Before being disposed of, wastewater from toilets and laboratories is treated through a Wastewater Treatment Plant (WWTP) system and modern biofilter technology.
   Water from WWTP that has met environmental standards is then reabsorbed into the soil or used for garden watering and campus greening.
   With this system, UNIMUS not only reduces environmental pollution, but also saves clean water consumption, creates a closed-loop system, and supports the principle of reduce, reuse, recycle (3R) in water management.

University and Location	Average Rainfall (mm/hr)	Water Flow Rate (liters/hr)	Number of Reservoirs	Capacity of Reservoirs (liters)
Universitas Muhammadiyah Semarang	30	1,595,161	1	1,410,000

R_{24} = 30 mm/hr
Luas Area (A) = 212,834 m^2
Koefisien limpasan (C) = 0.25
Flow (Q) = 1,595,161 liters/hr

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.3] Water Recycling Program Implementation (WR.3)



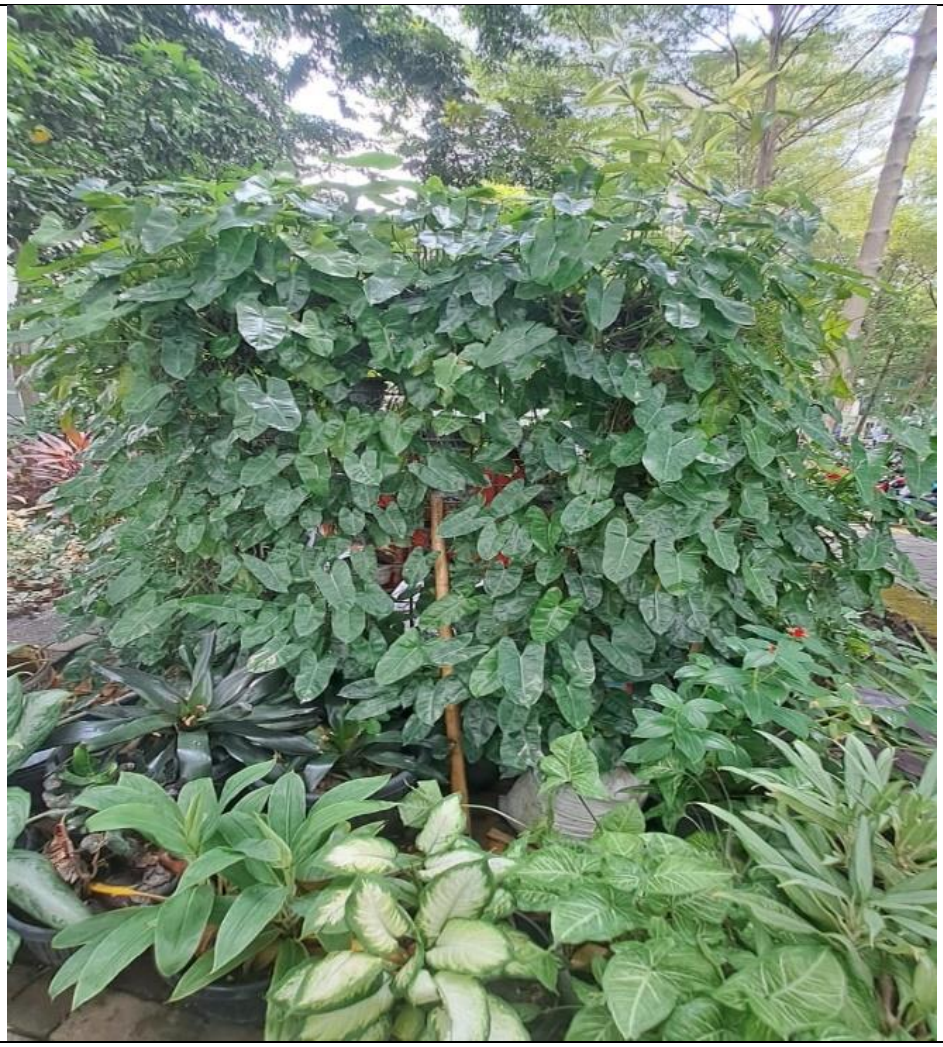
1. Construction of Infiltration Reservoirs and Rainwater Utilization



Bio Filter Reservoir on the Floor



Placement of Control Pools or Retention Pools

	
Retention Pond Control From WWTP	Channel Shelter from Impregnated WWTP Retention Pond
2. Utilization of Treated Water WWTP and Biofilter	
	
Plant Watering Reservoirs Covered by Vegetation	



Site Plan Universitas Muhammadiyah Semarang

1. Construction of Infiltration Reservoirs and Rainwater Utilization
   Universitas Muhammadiyah Semarang (UNIMUS) is committed to the conservation of water resources through the construction of infiltration ponds in the campus area as part of an integrated water conservation system. This reservoir serves to accommodate and hold the flow of rainwater so that it does not flow directly into drainage channels or ground surfaces, which can cause runoff and local flooding.
   In addition to collecting rainwater, this reservoir also plays an important role in increasing water infiltration into the soil, maintaining groundwater balance, and supporting the natural hydrological cycle in the campus environment. The water stored in the reservoir is filtered naturally through the process of sedimentation and filtration before being reused for various non-potable purposes, such as garden watering, greening, and cleanliness of the campus environment.

2. Utilization of Treated Water WWTP and Biofilter
   In addition to rainwater management, UNIMUS also implements a domestic wastewater treatment system through Wastewater Treatment Plants (WWTP) and Biofilters. Liquid waste from toilet and laboratory activities is processed first to meet environmental quality standards.

The treated water from WWTP is then drained to the reservoir or special distribution channel, where the water is stored to be reused as a secondary water source. This utilization is mainly used for watering plants, green areas, and the needs of the campus environment.

With biofilter technology and multi-level settling, this system is able to significantly reduce the levels of organic matter and microorganisms, so that the treated water is safe to use for non-consumption activities. This program not only reduces the use of clean water from PDAM, but also contributes to the efficiency of water resources, the reduction of liquid waste, and the preservation of the campus environment in a sustainable manner.

This activity reflects UNIMUS' commitment to the implementation of SDG 6 (Clean Water and Decent Sanitation), SDG 7 (Clean and Affordable Energy) through energy efficiency in water treatment systems, and SDG 12 (Responsible Consumption and Production).

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/

UNIMUS Official Website: https://unimus.ac.id/

UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.4] Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.) (WR.4)







1. Low-Pressure Eco Flush in Every Unimus Building



2. Watering Plants Using a Springler Regulated with a Gate Valve



3. Reservoir of Rainwater Infiltration



4. Educational Boards or Water-Saving Campaigns



5. Digital Water Meters are Installed in Every Unimus Building

Universitas Muhammadiyah Semarang has implemented the use of water-saving devices, such as:

1. Buildings in Unimus have implemented the use of Water Saving Equipment, the use of eco closet and urinal buttons with automatic buttons, each tap pressed will release water as needed, when removed it automatically stops flowing without having to close the faucet.
2. Automatic irrigation system for watering plants such as Springler, regulated with a Gate Valve.
3. Rainwater harvesting system, such as a reservoir: collecting rainwater to water plants or clean the campus area. Before being used for watering the plant, water is first put into the reservoir.
4. Education and increase awareness of campus residents to save water by installing water-saving campaign boards on bathroom doors, bathroom area walls, and bathroom walls.
5. Water monitoring system. In each Unimus Building, there is a digital water meter to monitor water consumption and detect leaks as an effort to improve water use efficiency.

Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	786	587	74,68%
Wastafel	904	-	0%
Springler	151	151	100%
Digital water meters	8	8	100%
		Average Percentage	**68,67%**



Site Plan at Universitas Muhammadiyah Semarang

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
UNIMUS Location on Google Maps:
https://maps.google.com/?q=Universitas+Muhammadiyah+Semarang+Kedungmundu

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.5] Consumption of treated water (WR.5)






Consumption of Treated water

The clean water installation, which is consumed by students and staff, is located on Universitas Muhammadiyah Semarang. The location consumption of treated water at the same building as Unimus Mart.



Site Plan at Universitas Muhammadiyah Semarang

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Evidence
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Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.6] Water pollution control in campus area (WR.6)

In an effort to control water pollution in the campus area, the Universitas Muhammadiyah Semarang conducts:

1. Monitoring wastewater quality once every 1 month.
2. In each campus building of the UNIMUS, there is a separate sewer system. Before being infiltrated, toilet waste and feces are treated with a bio filter, waste, and WWTP, before the water is absorbed and also used in watering plants. The results of waste treatment with bio filters are treated back at WWTP and then flow into retention ponds to control water before being absorbed, drained into reservoirs, or returned to natural channels/rivers.
3. UNIMUS in collaboration with PT. Arah Environmental Indonesia's direction in the management of laboratory liquid waste and B3 waste. Laboratory liquid waste and B3 waste from the UNIMUS campus were handed over to PT Arah Environmental Indonesia to be managed by PT. Arah Environmental Indonesia.
4. The water sources used come from PDAM and deep wells. Protection of water sources in deep wells by planting protective vegetation around water sources to prevent erosion and waste infiltration, and creating a protected zone around the embankment.



Bio Filter



WWTP from Processing in Bio Filter





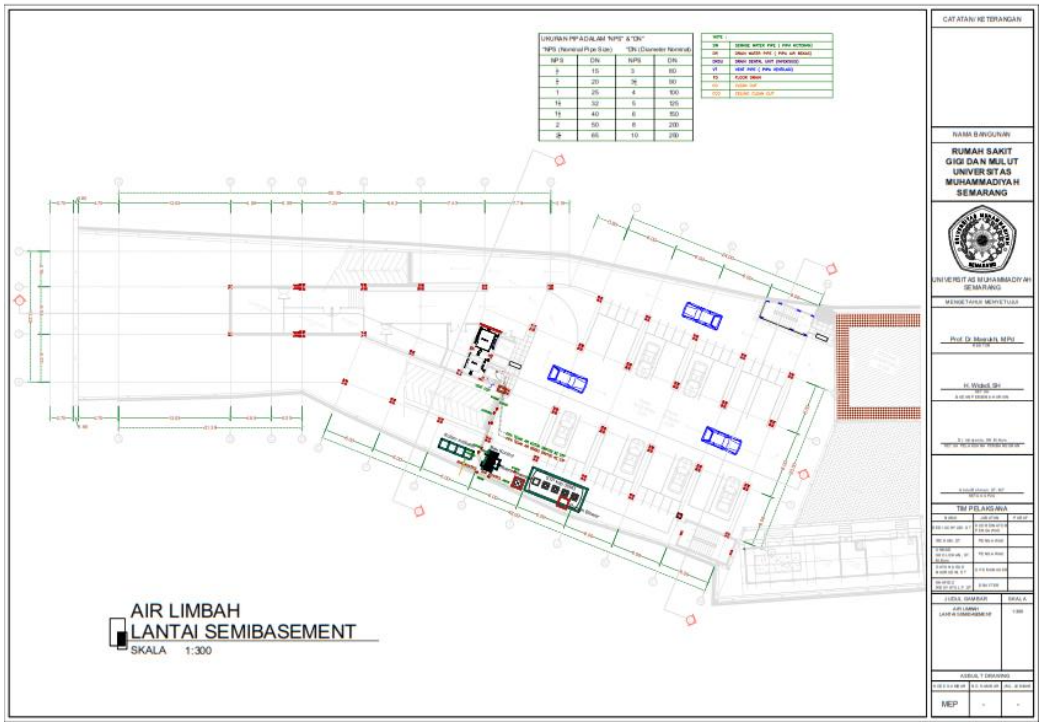
Retention Pond Control From WWTP



Channel Shelter from Impregnated WWTP Retention Pond



Reservoir Reservoir Catchment Rainwater and Water from WWTP or Bio Filter



Laboratory Wastewater Treatment Overview



ARAH

BERITA ACARA PENGANGKUTAN
FAKULTAS ILMU KEPERAWATAN DAN KESEHATAN UNIVERSITAS MUHAMMAD

Hi **FAKULTAS ILMU KEPERAWATAN DAN KESEHATAN UNIVERSITAS MUHAMMAD**

Terima kasih telah bekerjasama dengan PT Arah Environmental Indonesia, hari ini **(Selasa/19 Agus 2025)** petugas kami telah menyelesaikan pengangkutan Limbah B3 yang Anda hasilkan, dengan informasi sebagai berikut:

INFORMASI PENGANGKUTAN

Hari/Tanggal	: **Selasa/19 Agus 2025**
Jam Mulai s/d Selesai Pengangkutan	: **11:11 s/d 11:23**
Nama Penghasil	: **FAKULTAS ILMU KEPERAWATAN DAN KESEHATAN UNIVERSITAS MUHAMMAD**
Alamat Pengangkutan	: **Jl. Kedungmundu Raya No. 18 Kedungmundu, Tembalang, Semarang, Jawa Tengah 50273**
Jenis Layanan	: **PAKET - B**
Nama Petugas Penghasil	: **ARDI**
Nama Petugas Pengangkut	: **Syafarudin (Smrg)/DIDIK**
Nomor Polisi Armada	: **B.9872.SXR**
Nama Akun Pengangkut (SPEED)	:
Nomor Rekomendasi Pengangkutan	: **S.802/PSLB3-PLB3/PK/PLB.3/09/2022**

RINCIAN LIMBAH B3

Nomor Dokumen	Kode/Nama/Jenis Limbah	Berat (Kg)	Berat (Ton)	Keterangan
WW900128436	A337-1 - Padat/ A337-1 | Fasyankes - Limbah Infeksius (Medis Padat)/ Padat	67.55	0.067550	7 plastik

RINCIAN BERDASARKAN KODE LIMBAH B3

Nomor Dokumen	Kode/Nama/Jenis Limbah	Berat (Kg)	Berat (Ton)	Keterangan
WW900128436	A337-1	67.55	0.067550	7 plastik

**) Dokumen ini dapat digunakan sebagai referensi untuk penginputan data ke Manifes Elektronik (Festronik) yang terdapat pada laman SPEED* https://simpel.menlhk.go.id/

Minutes of B3 Waste Transportation by PT. Arah Environmental Indonesia

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[4] Water (WR)

[4.7] Impact of Water Management programs in supporting the Sustainable Development Goals (SDGs)



Reservoir of Rainwater Infiltration of Universitas Muhammadiyah Semarang



Preparation of Infiltration Wells







Use of water-saving fixtures



Installation of water meters and digital monitoring systems



Bio Filter of Universitas Muhammadiyah Semarang



WWTP from Processing in Bio Filter







Educational boards or water-saving campaigns

Description:
Universitas Muhammadiyah Semarang (UNIMUS) has implemented various water management programs that have contributed significantly to the achievement of 17 Sustainable Development Goals (SDGs). These initiatives reflect a strong institutional commitment to water conservation, sustainable use, and climate resilience. Key programs include:

- **Installation of rainwater harvesting systems** in reservoirs and open areas to collect and store rainwater for non-drinking purposes such as irrigation and flushing toilets. It is a real effort in supporting Sustainable Development Goal (SDGs) number 6, which is to ensure the availability and sustainable management of water and sanitation for all. Through this system, rainwater that was previously wasted can be collected and reused for non-drinking purposes such as garden watering, irrigation, and flushing toilets. These efforts help to improve the efficiency of clean water use (Target 6.4), maintain the availability of water sources (Target 6.6), and support integrated water resource management (Target 6.5). In addition, rainwater harvesting also contributes to the reduction of water runoff and potential flooding, thereby supporting the achievement of SDGs 11 (Sustainable Cities and Communities) and SDG's 13 (Handling Climate Change). Thus, the application of this technology is a strategic step towards an environmentally friendly and sustainable campus

- **The construction of infiltration wells and bioretention systems** to reduce surface runoff and increase groundwater replenishment supports SDG 6 (Clean Water and Decent Sanitation) as it helps to replenish groundwater, reduce surface runoff, and maintain the balance of the water cycle.
  In addition, this technology also contributes to SDG 11 (Sustainable Cities and Communities) and SDG 13 (Handling Climate Change) because it reduces flood risk and strengthens environmental resilience to climate change.

- **Use of water-saving fixtures** (low-flow taps, dual flush toilets, waterless urinals) throughout campus buildings to minimize daily water consumption. This effort supports SDG 6 (Clean Water and Decent Sanitation), especially target 6.4 on water use efficiency.
  This step also helps SDG 11 (Sustainable Cities) and SDG 12 (Responsible Consumption) because it reduces pressure on water resources and fosters a water-saving culture in the educational environment.

- **Installation of water meters and digital monitoring systems** to track water usage and detect leaks directly. These efforts support SDG 6 (Clean Water and Decent Sanitation), especially targets 6.4 and 6.5, by improving the efficiency and accuracy of water management.
  In addition, this step is also in line with SDG 9 (Innovation and Infrastructure) and SDG 11 (Sustainable Cities) because it utilizes digital technology to create an efficient, adaptive, and sustainable water system. SDG 12 is also supported by this effort, where monitoring water consumption encourages frugal and responsible behavior in the use of natural resources.

- **Implementation of wastewater treatment systems** for wastewater reuse for watering, gardening, and cleaning. This effort is to support SDGs 6, 12 and 15. Sustainable wastewater management improves water quality by reducing pollution and increasing wastewater recycling
  Wastewater treatment systems purify wastewater so that it can be reused for watering, gardening, or cleaning of campus areas.
  To support SDG 12, this effort encourages economical and circular water consumption patterns through the 3R (Reduce, Reuse, Recycle) principle.
  This effort is also to support SDGs 15, which is to reduce the disposal of liquid waste into the soil and public channels, maintaining the quality of the surrounding environment

- **Awareness campaigns and workshops that promote water-saving habits** among students, staff, and faculty. Water-saving campaign activities and workshops support SDG 6 (Clean Water and Decent Sanitation) by raising

awareness to use water efficiently. In addition, this activity also strengthens SDG 4 (Quality Education) because it instills the value of sustainability, SDG 12 (Responsible Consumption) through behavior change, and SDG 17 (Partnership for Goals) through cross-community collaboration on campus.

These efforts directly support SDGs 1,2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17. In detail it can be explained as follows:

- **SDG 1 – Without poverty.**
  The goal of SDG 1 is to end poverty in all forms everywhere.
  Efficient water management helps lower campus operating costs, so funds can be diverted to scholarships, research, and improvements to student facilities.
  Water efficiency and conservation programs can create green jobs for students and the surrounding community (for example, in WWTP management, water system maintenance, or water technology research).
  Good water management also reduces economic risks due to water shortages or facility damage due to leakage and waste.

- **SDG 2 – No hunger**
  The goals of SDG 2 End hunger, achieve food security, and improve nutrition.
  Properly managed campus wastewater prevents river pollution from chemical waste, detergents, or hazardous materials. In controlling water pollution in the campus area, wastewater is treated in WWTP before being returned to natural channels. Water that has returned to clean in natural channels or rivers can be used to meet agricultural irrigation water needs

- **SDG 3 – Supporting public health through access to clean and safe water**
  The goal of SDG 3 is to ensure healthy lives and improve well-being for all ages.
  The provision of clean water and good sanitation on campus prevents diseases caused by contaminated water, such as diarrhea or skin infections.
  Good wastewater management keeps the campus environment healthy and pollution-free.
  Access to clean water also supports mental health and learning comfort for the entire academic community

- **SDG 4 – Providing a learning environment with reliable and sustainable water infrastructure.**
  The goals of SDG 4 ensure inclusive, equitable, and quality education and promote lifelong learning opportunities
  A campus with a good water management system can be a living laboratory for students to learn about water efficiency, conservation, and water treatment technology.
  Encourage research, innovation, and cross-disciplinary learning in the fields of environmental engineering, civil engineering, and sustainability.
  Water-saving awareness campaigns and programs support sustainable character and behavior education for the academic community.

- **SDG 5 – Gender Equality**
  The goal of SDG 5 is to achieve gender equality and empower all women and girls.
  Access to clean water and proper sanitation on campus supports women's comfort and safety, especially in the use of toilets and public spaces.
  The involvement of female students in water management projects and research also increases their participation in the field of environmental science and technology.
  Adequate sanitation facilities reduce gender access inequality in study and work spaces.

- **SDG 6 – Memastikan ketersediaan dan pengelolaan air dan sanitasi yang berkelanjutan untuk semua.**
  The goal of SDG 6 is to ensure the availability and sustainable management of clean water and sanitation for all.
  These are the main goals that are most directly related. The implementation of water management systems includes:
    - Water saving (water-saving device, usage monitoring).
    - Wastewater treatment (WWTP).
    - Utilization of rainwater.
    - Educate on the importance of clean water and sanitation.

  All of these actions support SDG 6 targets such as:
  6.1: Universal access to clean water.
  6.2: Access to sanitation and hygiene.
  6.3: Improvement of water quality through sewage treatment.
  6.4: Water use efficiency.

- **SDG 7 - Clean and Affordable Energy**
  The goals of SDG 7 ensure access to affordable, reliable, sustainable, and modern energy.
  In water management at the University of Muhammadiyah Semarang, energy efficiency in water distribution is essential.
  A good water efficiency system (e.g. water pressure monitoring, leak sensors, and efficient distribution schedules) can save the electrical energy used for water pumping and distribution.
  The less water is wasted, the less energy is needed to pump and process new water.
  An example of water efficiency on the campus of the University of Muhammadiyah Semarang is implementing the use of Water Saving Equipment, the use of eco closet and urinal buttons with automatic buttons, each tap pressed will release water as needed, when removed it automatically stops flowing without having to close the faucet. In addition, there is also an automatic irrigation system, a water-saving campaign and a water use monitoring system.

  The campus is a place for research and learning about the relationship between water and energy — how automatic water saving means energy savings.
  Students can learn energy efficiency technologies in hydraulic systems and water treatment.
  The integration of water and energy management supports the concept of an energy- and resource-efficient campus.

- **SDG 8 – Decent Work and Economic Growth**
  The goals of SDG 8 are to promote inclusive and sustainable economic growth and decent work.
  The water conservation and management program opens green jobs in the fields of engineering, environment, and water system maintenance.
  Water savings lower operational costs, supporting the economic efficiency of the campus.
  Through research and training activities, the campus prepares professional human resources in the field of sustainable water management.

- **SDG 9 – Implementing innovative water management infrastructure**
  The goal of SDG 9 is to encourage technological innovation and sustainable infrastructure development.
  Campuses can be centers for water technology innovations—such as digital leak sensors, water recycling systems, and efficient conduit design.
  The development of green infrastructure such as infiltration parks, biopore wells, and sustainable drainage supports SDG 9.
  Collaboration with the water industry drives sustainable technological innovation.

- **SDG 10 – Reduced Gaps**
  The goal of SDG 10 is to reduce disparities within and between communities.
  Access to clean water and sanitation throughout the campus area ensures justice for all communities, regardless of gender, position, or location.
  Community service programs related to clean water help communities around campuses that lack water.

- **SDG 11 – Improving urban resilience through sustainable water practices**
  The goal of SDG 11 is to create inclusive, safe, resilient, and sustainable cities and settlements.
  Campuses with efficient water systems and sustainable drainage can be a miniature model of a green city.
  Rainwater management, infiltration systems, and wastewater treatment make the campus environment more resilient to floods and droughts

- **SDG 12 – Encourage responsible consumption of natural resources**
  The goal of SDG 12 is to ensure sustainable consumption and production patterns.
  Efficient water management is part of responsible resource consumption.
  Water recycling, liquid waste treatment, and digital monitoring systems drive clean production).

- **SDG 13 – Climate mitigation through adaptive water strategies**
  The goal of SDG 13 is to take urgent action on climate change and its impacts.
  Water efficiency helps reduce carbon emissions from the water distribution and treatment process.
  Drainage systems and rainwater absorption increase resilience to extreme climate change (floods, droughts).
  Water management education and research also contribute to climate adaptation at the local level

- **SDG 14 – Prevent water pollution that impacts aquatic ecosystems**
  The goal of SDG 14 is to conserve and sustainably utilize marine and ocean resources.
  Well-managed campus wastewater prevents pollution of rivers and oceans from chemical waste, detergents, or hazardous materials.
  Campus education and research programs can focus on water quality and its impact on aquatic ecosystems.
  Continuous drainage reduces rainwater runoff that carries pollutants into channels to the ocean.

- **SDG 15 – Protecting terrestrial ecosystems through integrated water management**
  The goal of SDG 15 is to protect, restore, and support the sustainable use of terrestrial ecosystems.
  Water management systems (such as infiltration wells, rain gardens, and biopores) increase water infiltration into the soil, maintain soil moisture, and support campus vegetation.
  Prevent soil erosion and land degradation due to irregular water flow.
  Supporting the sustainability of campus parks, biodiversity and green space.

- **SDG 16 - Peace, Justice, and Resilient Institutions**
  The goal of SDG 16 is to encourage a peaceful, equitable, and institutionalized society.
  Transparent and accountable water management (e.g. water consumption reporting and conservation policies) reflects good governance in the campus environment.
  Involving students, lecturers, and education staff in decision-making about water policy creates participation and a sense of shared responsibility.
  Building a campus culture that is equitable and collaborative in the use of resources.

- **SDG 17 – Strengthening water-related partnerships for sustainable development**
  The goal of SDG 17 is to strengthen the means of implementation and revive global partnerships for sustainable development.
  Campuses can collaborate with governments, industry, and NGOs on research, innovation, or water management projects.
  Partnerships between universities (national and international) strengthen the exchange of knowledge and best practices in water conservation.
  Community service activities are also a form of local partnership for clean water sustainability.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
UNIMUS GreenMetric website: https://greenmetric.unimus.ac.id/
UNIMUS Official Website: https://unimus.ac.id/
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Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.4] The total number of vehicles (cars and motorcycles) divided by total campus' Population (TR.1)

a. Number of cars actively used and managed by the university [5.1]

Universitas Muhammadiyah Semarang (UNIMUS) manages 26 active cars as shown in Figure 1 below, dominated by MPVs (9 Expander, 5 Innova), followed by sedans (4 Vios, 1 Civic). The cars also includes 3 minibuses (Canter, Elf, Hiace), 1 SUV (CRV), 1 shuttle, 1 pick-up truck, and 1 medium bus.

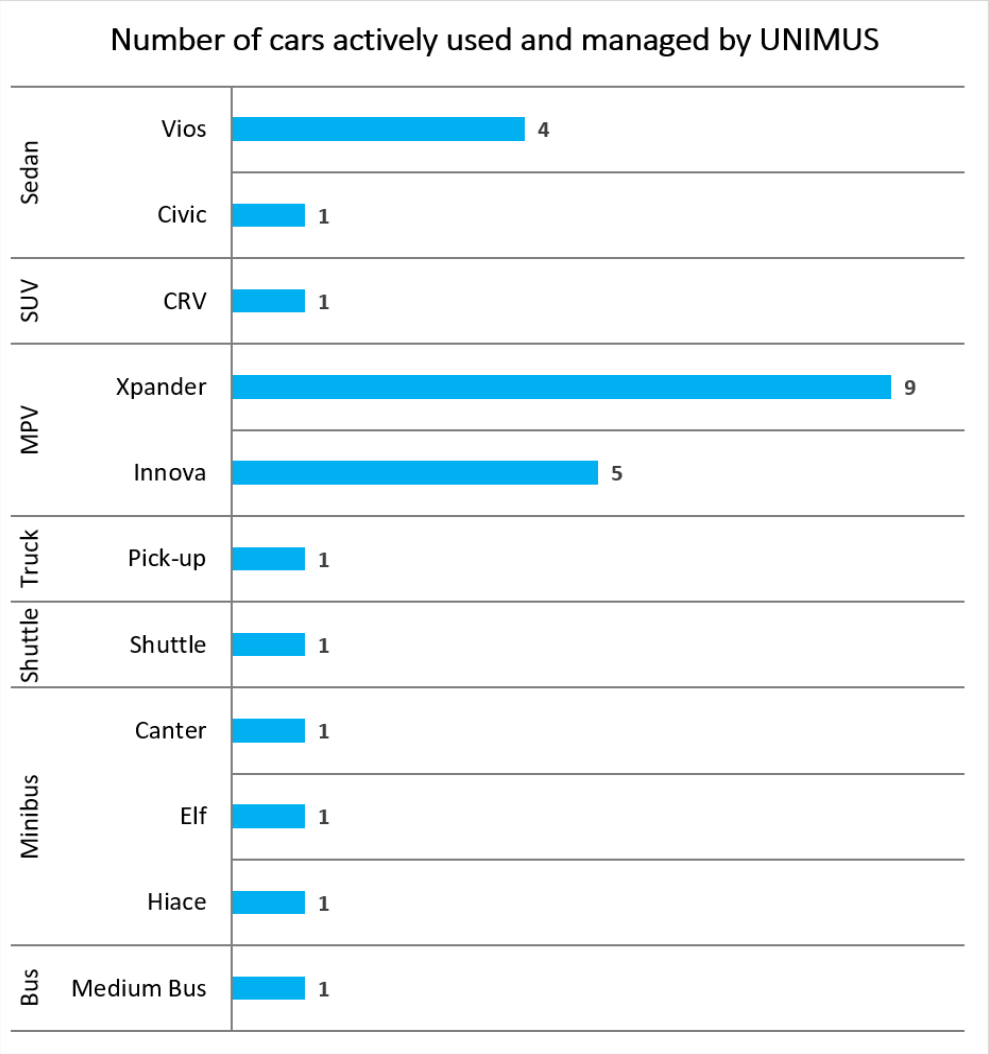


Figure 1. Number of cars actively used and managed by UNIMUS

b. Number of cars entering the university daily [5.2]

To obtain a representative estimate of campus transportation activity, vehicle data were collected using a **balanced sampling period** that included both active academic days and non-active academic periods, such as weekend, semester breaks, and national holidays. This approach minimizes bias caused by fluctuations in campus occupancy and activity levels, ensuring that the calculated average daily vehicle count more accurately reflects overall campus conditions throughout the year 2025. The detailed number of days for each period from 3 January 2025, to 31 December 2025, is presented in Figure 2 below. (Survey report, 2026)

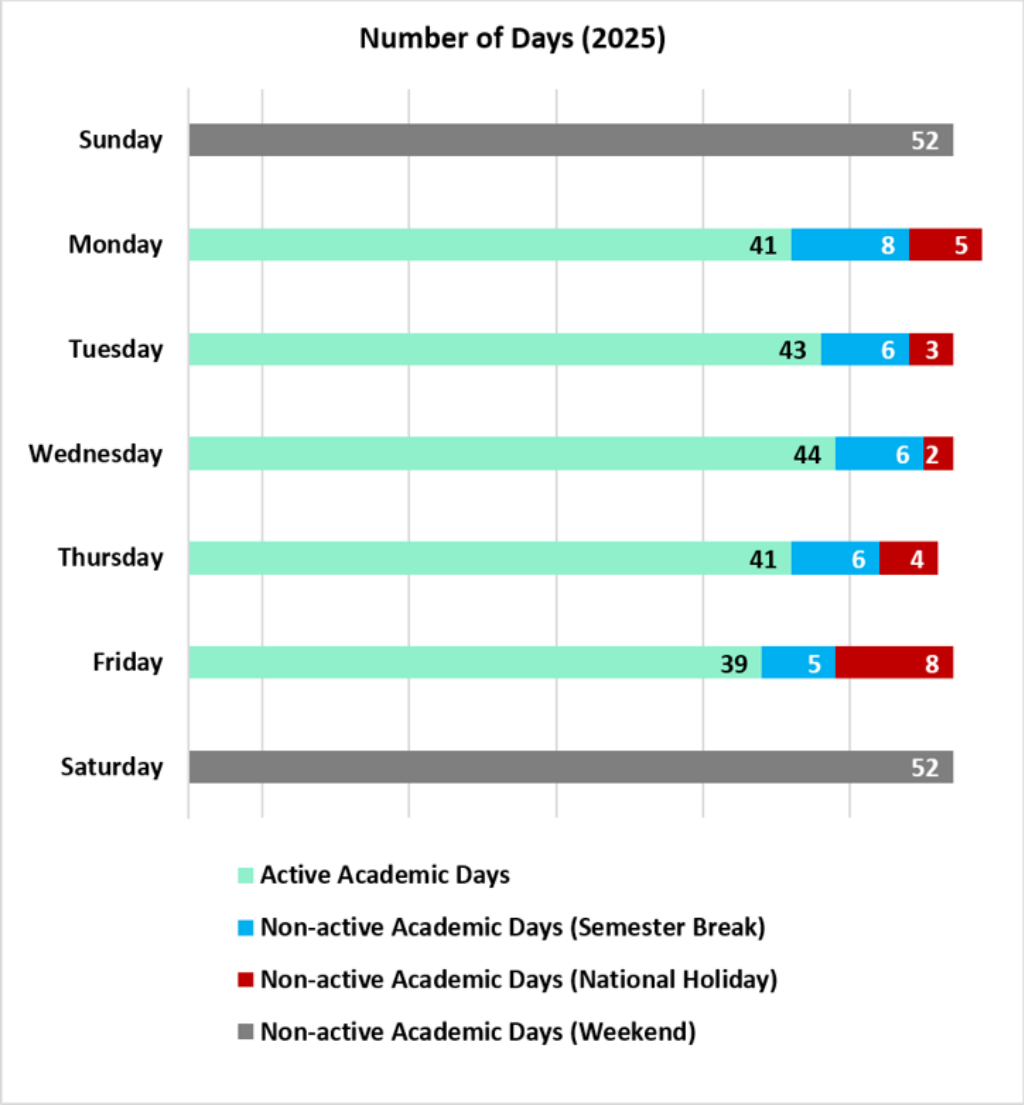


Figure 2. The detailed number of days (Sampling period)

The number of cars entering UNIMUS on a daily basis during the last 12 months (3 Januari 2025 – 31 December 2025) is shown in Figure 3 below.

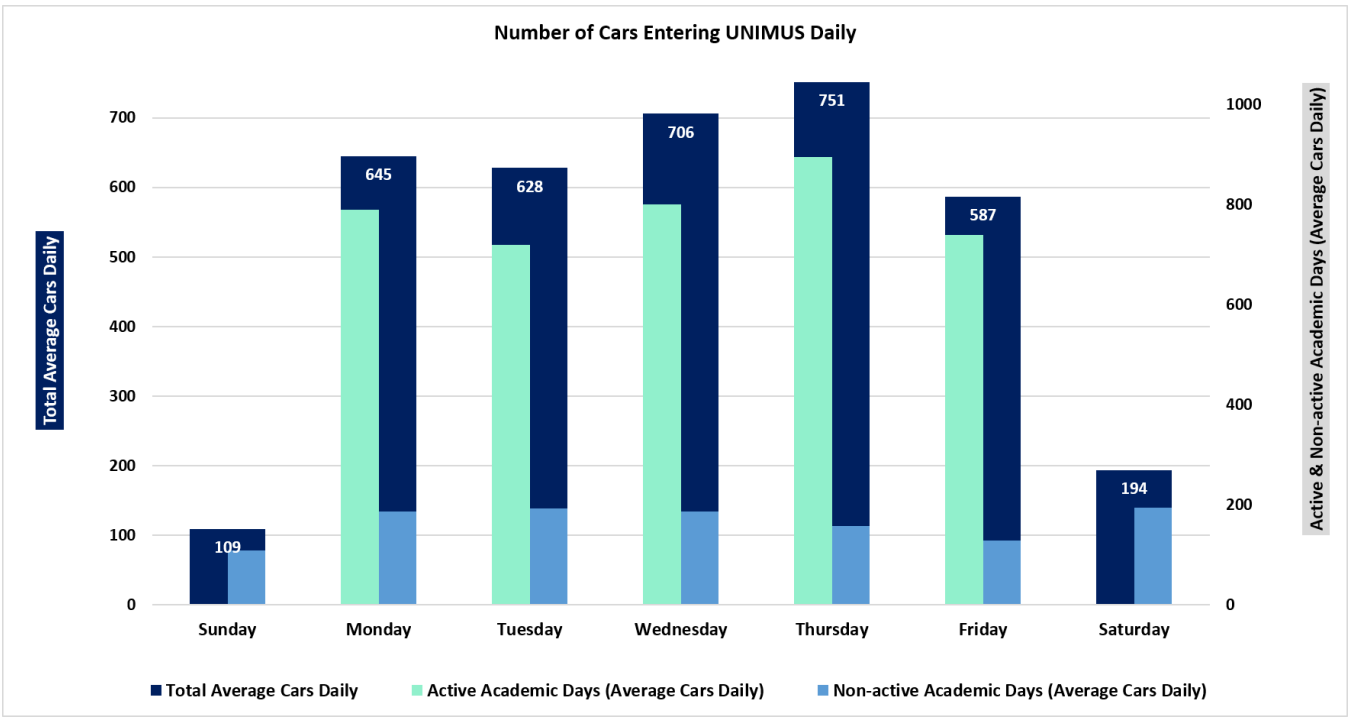


Figure 3. The average of cars entering UNIMUS daily in last 12 months

c. Number of motorcycles entering the university daily [5.3]

The number of motorcycles entering UNIMUS on a daily basis during the last 12 months (3 Januari 2025 – 31 December 2025) is shown in Figure 4 below.

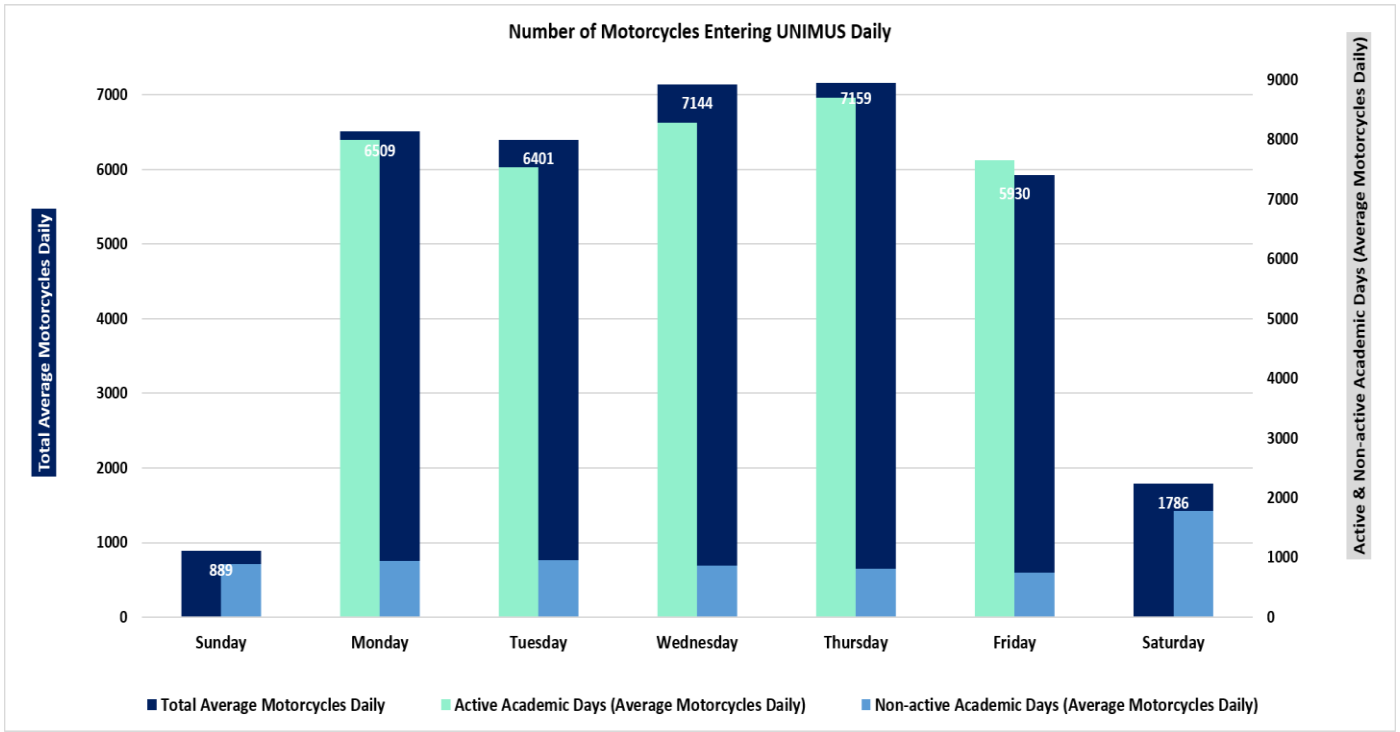


Figure 4. The average of motorcycles entering UNIMUS daily in last 12 months

d. The total number of vehicles (cars and motorcycles with combustion engines) divided by the total campus' population (TR.1)

The following data summarizes the number of vehicles entering Universitas Muhammadiyah Semarang (UNIMUS) on a daily basis during the last 12 months (3 Januari 2025 – 31 December 2025), alongside the total academic community population. The data were collected manually at the main gate of UNIMUS and UNIMUS Hospital, ensuring that all daily vehicle entries were recorded consistently throughout the observation period. The total number of vehicles and UNIMUS population is shown in Table 1 below.

Table 1. The total number of vehicles (cars and motorcycles with combustion engines) and the total UNIMUS' population

No.	Data	Total Number	
1	Number of cars actively used and managed by the university	26	**5660**
2	Number of cars entering the university daily	517	
3	Number of motorcycles entering the university daily	5117	
4	Total number of regular students	13719	**14458**
5	Total number of academic and administrative staff	739	

TR.1(5.4) = **5660** / **14458** (population) = **0.391**

Description:

The results show that, over the past 12 months (3 Januari 2025 – 31 December 2025), an average of 5660 vehicles entered UNIMUS daily, with motorcycles (5117 units) far outnumbering cars (517 units). When compared to the total UNIMUS population of **14458** people (regular students, academic and administrative staff), this equates to a ratio of approximately **0.391**.

Additional evidence link:
- https://drive.google.com/drive/folders/1gfm9m9wsJLOcQx_Yt7R_iErJXUiHp1Q2?usp=drive_link (UNIMUS Cars)
- https://drive.google.com/drive/folders/1EjZXXWPE9VVT6X8OtbQxhYTmJqud2f2G?usp=drive_link (Survey)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.5] Shuttle Services (TR.2)

To support the mobility of the academic community of Universitas Muhammadiyah Semarang (UNIMUS) in traveling within the campus area to access various facilities, UNIMUS provides a shuttle service, as shown in Figure 1. This shuttle service consists of a small biodiesel-fueled bus, operated regularly by UNIMUS, and is available free of charge for all members of the UNIMUS academic community. The shuttle operates from Monday to Friday, with services in the morning, midday, and afternoon. At each of these times, the shuttle makes three trips. The detailed operating schedule of the shuttle can be seen in Figure 2. The detailed shuttle route can be seen in Figure 3.



Figure 1. Shuttle Service UNIMUS

Timetable of the UNIMUS' Shuttle			
Day	**Trip**		**Number of trips**
Monday	Morning	06.30 - 08.30	3
	Midday	11.00 - 13.00	3
	Afternoon	15.15 - 16.30	3
Tuesday	Morning	06.30 - 08.30	3
	Midday	11.00 - 13.00	3
	Afternoon	15.15 - 16.30	3
Wednesday	Morning	06.30 - 08.30	3
	Midday	11.00 - 13.00	3
	Afternoon	15.15 - 16.30	3
Thursday	Morning	06.30 - 08.30	3
	Midday	11.00 - 13.00	3
	Afternoon	15.15 - 16.30	3
Friday	Morning	06.30 - 08.30	3
	Midday	11.00 - 13.00	3
	Afternoon	15.15 - 16.30	3

Figure 2. Operating schedule of the shuttle

Details of the shuttle service, including its locations, coverage area, routes, and distribution to the various facilities within UNIMUS, can be seen in Figure 3.

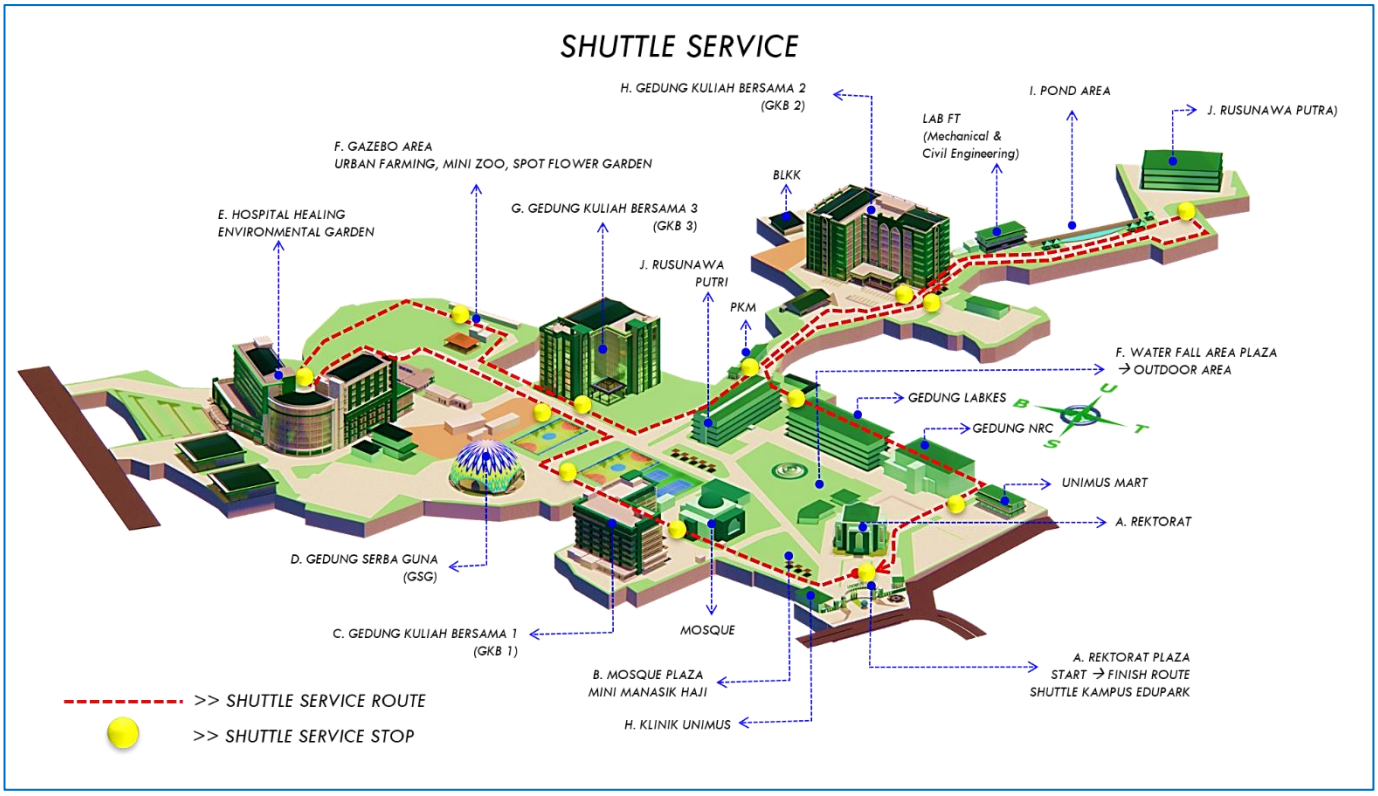


Figure 3. Shuttle' Location, area size, route, or distribution of facilities in UNIMUS

Additional evidence link:
https://drive.google.com/drive/folders/1SsM1sx6BAKbxRr_REcPs2iJ5giPgrPVU?usp=sharing

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.9] Zero Emission Vehicles (ZEV) availability on campus (TR.3)

A. UNIMUS ZERO EMISSION VEHICLES (ZEV)

Universitas Muhammadiyah Semarang (UNIMUS) provides Zero Emission Vehicles (ZEV) to facilitate the mobility of its academic community within the campus, enabling easy access to various facilities, as illustrated in Figure 1. The fleet consists of bicycles and electric bicycles (E-bikes), which are made available free of charge to all members of the academic community.



a. UNIMUS' Electric Bicycles



b. UNIMUS' Bicycles

Figure 1. UNIMUS' Zero Emission Vehicles (ZEV)

The total number of Zero Emission Vehicles (ZEV) provided by UNIMUS for its academic community is 55 units, consisting of 10 electric bicycles and 45 bicycles. These vehicles are available on campus every day for use by all members of the UNIMUS academic community.

Type of ZEV	Total number each vehicle
Electric Bicycles	10
Bicycles	45
Total	**55**

B. PRIVATELY OWNED ZERO EMISSION VEHICLES (ZEV)

On average, a total of 57 Zero Emission Vehicles (ZEV) owned personally by members of the UNIMUS academic community as well as by visitors enter the UNIMUS campus each day. Further details are presented in the table below. (Survey report, 2026)

Day	Type of ZEV	Average per day	Total
Monday	Electric Motorcycles	25	65
	Electric Bicycles	18	
	Bicycles	16	
	Electric Cars	6	
Tuesday	Electric Motorcycles	24	62
	Electric Bicycles	19	
	Bicycles	14	
	Electric Cars	5	
Wednesday	Electric Motorcycles	24	63
	Electric Bicycles	18	
	Bicycles	17	
	Electric Cars	4	
Thursday	Electric Motorcycles	26	67
	Electric Bicycles	19	
	Bicycles	16	
	Electric Cars	6	
Friday	Electric Motorcycles	24	61
	Electric Bicycles	17	
	Bicycles	15	
	Electric Cars	5	
Saturday	Electric Motorcycles	16	45
	Electric Bicycles	14	
	Bicycles	11	
	Electric Cars	4	
Sunday	Electric Motorcycles	9	37
	Electric Bicycles	11	
	Bicycles	14	
	Electric Cars	3	
Average ZEV entering UNIMUS per day			**57**

[5.10] Average number of Zero Emission Vehicles (ZEV) on campus per day

The presence of Zero Emission Vehicles (ZEV) on the UNIMUS campus reflects both institutional support and individual initiatives in promoting environmentally friendly transportation. UNIMUS itself provides a fleet of 55 ZEV units, consisting of 45 bicycles and 10 electric bicycles, which are stationed on campus and available for daily use by the academic community. In addition, an average of 57 privately owned ZEV—belonging to members of the UNIMUS academic community as well as campus visitors—enter the campus each day. Taken together, this indicates that on a typical day, the UNIMUS campus accommodates around 112 ZEV in total.

A.	UNIMUS Zero Emission Vehicles (ZEV)	55 Unit/day
B.	Privately Owned Zero Emission Vehicles (ZEV)	57 Unit/day
	Average ZEV on UNIMUS per day	**112**

[5.11] The total number of Zero Emission Vehicles (ZEV) divided by the total campus population (TR.4)

The average number of Zero Emission Vehicles (ZEV) on campus per day is **112** ZEV, consisting of 55 units provided directly by Universitas Muhammadiyah Semarang (UNIMUS) and an additional 57 privately owned ZEV that enter the campus daily, either from members of the academic community or visitors. When compared to the total campus population of **14458** individuals, this figure represents a ratio about **0.007756**.

Additional evidence link:
- https://drive.google.com/drive/folders/1eW8GOalzXVKnk6o1LTskI_yVrDRDQl9-?usp=drive_link (ZEV)
- https://drive.google.com/drive/folders/1EjZXXWPE9VVT6X8OtbQxhYTmJqud2f2G?usp=drive_link (Survey)
- https://drive.google.com/drive/folders/17izZri3UkBF3ngrC3dsMM3FPq8kYKdfd?usp=drive_link (Policies)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.13] The ratio of the ground parking area to total campus area (TR.5)



- Total UNIMUS' main campus area: **21.2834** hectare = **212834** m^2
- Total UNIMUS' parking area: **8278.60** m^2

Parking area mapping : https://www.google.com/maps/d/viewer?mid=1ayuaeD9riwaif_aMXQ5br-jUKKr7lzU&ll=-7.020794095223879%2C110.46018974634038&z=17

Table of UNIMUS parking area

Name of the parking area	Area (m^2)
Depan Rektorat	309.55
Depan Rektorat	135.88
Unimus Mart	542.37
Belakang Rektorat	191.43
Belakang Rektorat	497.28
Kantin	281.92
Samping Masjid	249.08
Belakang Masjid	213.45
FK & GKB 1	736.11
Rusunawa Putri	580.54
FKG, FKM, GKB 3	981.55
GSG	0.44
RS	1147.01
FT, MIPA, GKB 2	904.38
Samping GKB 2	441.82
Gudang UPPU	520.59
RS	123.83
Lab. FT	348.84
Rusunawa Putra	72.53
Total Luas Parkir	**8278.60**

The ratio of the ground parking area to total campus area $= \frac{\text{Total UNIMUS' parking area}}{\text{Total UNIMUS' main campus area}}$

$= \frac{\mathbf{8278.60}\ \text{m}^2}{\mathbf{212834}\ \text{m}^2}$

$= \mathbf{3.89\ \%}$

Additional evidence link:
https://www.google.com/maps/d/viewer?mid=1ayuaeD9riwaif_aMXQ5br-jUKKr7lzU&ll=-7.020794095223879%2C110.46018974634038&z=17

Template for Evidence(s)
UI GreenMetric Questionnaire

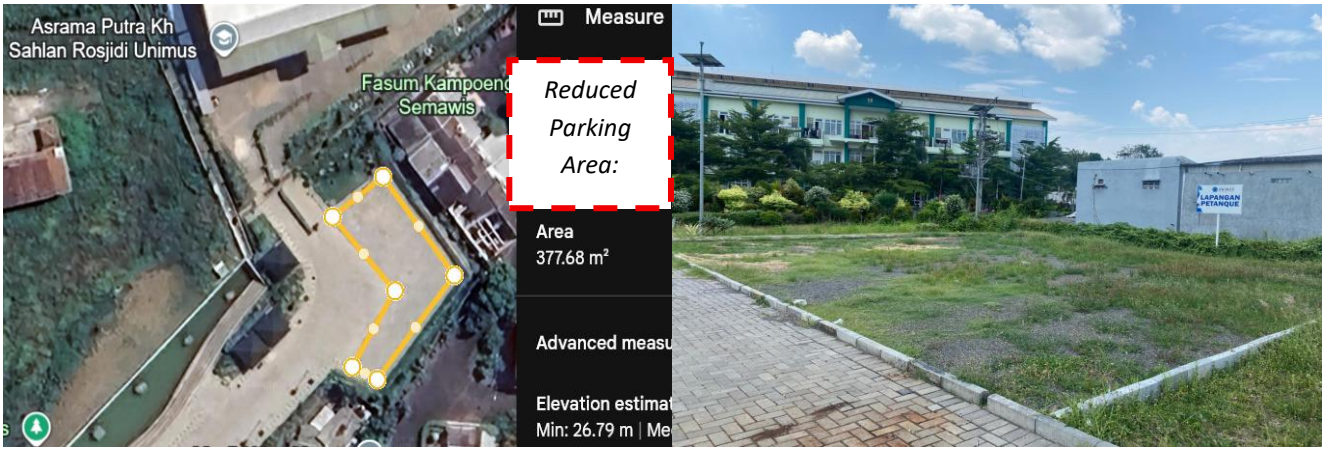
University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.14] Program to limit or decrease the parking area on campus for the last 3 years (TR.6)



Before (Parking Area) → **After** (Food Court) - 2023



Before (Parking Area) → **After** (Petanque Field) - 2024

Figure 1. The conversion of parking spaces previously used for fuel-based vehicles into alternative campus facilities of UNIMUS



Figure 2. UNIMUS' Shuttle service



Figure 3. Limiting parking zone

Description:

Over the past three years, Universitas Muhammadiyah Semarang (UNIMUS) has implemented a range of transportation programs aimed at reducing dependence on fossil-fuel vehicles and gradually limiting the need for parking areas within the campus. One concrete measure has been the **conversion of parking areas previously**

designated for fuel-powered vehicles into alternative facilities, resulting in a total reduction of **618.18 m²**, as documented through before-and-after photographs in Figure 1.

In addition, UNIMUS provides a **campus shuttle service** and has introduced **parking zone restrictions at several strategic points** (Figure 2 and Figure 3). These policies are intended to control the number of fuel-powered vehicles entering the campus while encouraging the academic community to shift toward environmentally friendly modes of transportation.

UNIMUS has also issued a **circular on the availability and use of Zero Emission Vehicles (ZEVs)** owned by the university, such as bicycles and e-bikes, which are available **free of charge** for all members of the academic community for on-campus trips. This initiative is reinforced by a **directive to first-year students not to bring fuel-powered vehicles to campus**, instead recommending the use of public transportation for commuting and the shuttle service, ZEVs, or walking for internal mobility.

Furthermore, UNIMUS supports the reduction of parking demand through the **implementation of online classes** and Car Free Day, which decrease the frequency of commuting to campus. Awareness of sustainable transportation is also continuously promoted through official circulars commemorating **National Public Transportation Day (24 April)** and **National Walking Day (22 January)**.

Overall, this series of policies and programs demonstrates UNIMUS's strong commitment to creating a campus environment that is **eco-friendly, healthy, and oriented toward sustainable transportation**, while significantly reducing the demand for conventional motor vehicle parking space.

Parking Area Reduction:

- Parking Area in 2023 = **8896.78** m^2
- Parking Area in 2025 = **8278.60** m^2

Reduction for the last 3 years:

$$= \left(\frac{\text{Parking Area in } \mathbf{2023} - \text{ Parking Area in } \mathbf{2025}}{\text{Parking Area in } \mathbf{2023}}\right) \times 100\%$$

$$= \left(\frac{8896.78\ \text{m}^2 - 8278.60\ \text{m}^2}{8896.78\ \text{m}^2}\right) \times 100\%$$

$$= \mathbf{6.9}\%$$

Additional evidence link:

- https://drive.google.com/drive/folders/1gqu0j0oPp4A4z_A-uZvR0zz5bCL8ok1M?usp=drive_link (Programs)
- https://drive.google.com/drive/folders/17izZri3UkBF3ngrC3dsMM3FPq8kYKdfd?usp=drive_link (Policies)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.15] Number of initiatives to decrease private vehicles on campus (TR.7)

The following are a number of initiatives to decrease private vehicles on Universitas Muhammadiyah Semarang.



Figure 1. UNIMUS' Shuttle service



Figure 2. UNIMUS' ZEV



Figure 3. Limiting parking zone

Description:

Universitas Muhammadiyah Semarang (UNIMUS) has launched a series of initiatives to reduce the use of private fossil-fuel vehicles within the campus environment. One of the key measures is the provision of the **UNIMUS shuttle service**, which functions as a shared mode of transportation, thereby reducing the need for students and staff to bring private vehicles. This effort is further strengthened by the availability of **university-owned Zero Emission Vehicles (ZEVs)**, such as bicycles and e-bikes, which are provided free of charge for all members of the academic community for on-campus travel. The availability of these facilities has also been disseminated through official circulars, ensuring that their use is increasingly integrated into daily activities.

In addition to providing facilities, UNIMUS has implemented **policies restricting the use of fuel-powered vehicles**. Students residing in the university dormitories (both male and female) are prohibited from using such vehicles for internal campus mobility and are directed instead to utilize the shuttle service, ZEVs, or walk. A **similar policy applies to first-year students**, who are advised not to bring private vehicles to campus but rather to use public transportation for commuting and rely on the shuttle service, ZEVs, or walking for internal trips.

These initiatives are complemented by the adoption of **online classes** and **Car Free Day**, which directly reduce the frequency of commuting to campus. Furthermore, UNIMUS continues to foster collective awareness through official circulars commemorating **National Public Transportation Day** (24 April) and **National Walking Day** (22 January), which serve as opportunities for education and campaigns promoting a culture of sustainable transportation.

Overall, the combination of environmentally friendly facilities, regulatory measures limiting private vehicle use, and public awareness campaigns demonstrates UNIMUS's commitment to creating a greener, healthier, and emission-reduction-oriented campus environment.

Additional evidence link:

- https://drive.google.com/drive/folders/17izZri3UkBF3ngrC3dsMM3FPq8kYKdfd?usp=drive_link (**Policies**)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.16] Pedestrian path on campus (TR.8)



Pedestrian path (Universitas Muhammadiyah Semarang, Indonesia)

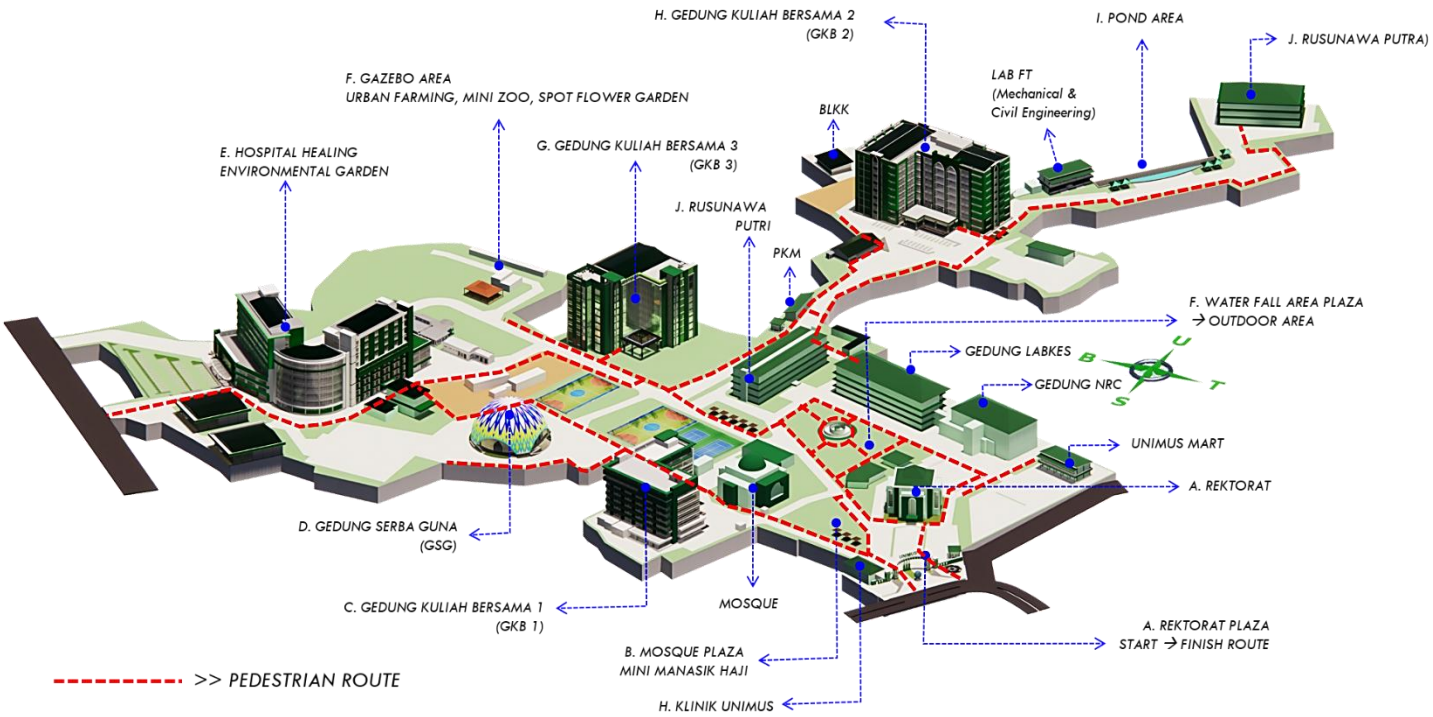








Pedestrian path (Universitas Muhammadiyah Semarang, Indonesia)



Description:

UNIMUS has developed pedestrian paths that not only serve as mobility facilities but are also designed to reflect the principles of **safety, convenience, and inclusivity**. This infrastructure supports the creation of a pedestrian-friendly campus environment while encouraging a culture of sustainable transportation. The facilities take into account both technical and social aspects, ensuring that they can be optimally used by the entire academic community, including persons with disabilities.

Safety

- The pedestrian paths are **equipped with adequate lighting**, ensuring safety during nighttime use.
- The **separator between vehicle roads and pedestrian paths consists of height differences and painted curbs**, providing both visual and physical boundaries, even though it is not a hard barrier.
- Most paths are constructed with **non-slippery paving materials**, reducing the risk of slipping, especially in wet conditions.

Convenience

- **Each building on campus is connected by pedestrian paths**, facilitating mobility between facilities.
- **Trees are planted along the paths** to provide shade and comfort for pedestrians.
- **Location information and directional signs** are available to assist navigation within the campus.

Disabled-friendly

- The pedestrian paths are **designed to be disable-friendly**, ensuring accessibility for all users.
- They are equipped with **handrails at certain points** to support mobility.
- **Ramps and guiding blocks** are provided with designs that meet accessibility standards, making them suitable for individuals with physical disabilities and those with visual impairments

Additional evidence link:

https://drive.google.com/drive/folders/1InVnI_OC2eFhLFy25frP_zSs3Q-9m23x?usp=drive_link (Pedestrian path)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[5] Transportation (TR)

[5.18] Impact of Transportation programs in supporting the Sustainable Development Goals (SDGs)




UNIMUS Shuttle service




UNIMUS Electric Bicycles




UNIMUS' Bicycles

Description:

The transportation programs implemented by Universitas Muhammadiyah Semarang (UNIMUS) demonstrate a strong alignment with multiple Sustainable Development Goals (SDGs). UNIMUS's transportation programs contribute to **16** of the **17 SDGs**:

- **SDG 1 – No Poverty**
  Free shuttle services, bicycles, and e-bikes reduce transportation costs for students and staff, ensuring affordable mobility.
- **SDG 2 – Zero Hunger**
  By reallocating parking areas into alternative facilities, UNIMUS creates opportunities for green/open spaces that can support food security initiatives such as urban gardens.
- **SDG 3 – Good Health and Well-being**
  By promoting walking, cycling, and the use of Zero Emission Vehicles (ZEV), UNIMUS encourages active mobility and reduces air pollution, thereby contributing to a healthier campus environment.
- **SDG 4 – Quality Education**
  Free shuttle services, bicycles, and e-bikes ensure equitable access to campus facilities for all students and staff, regardless of economic background. The integration of sustainable transport policies into daily campus life also functions as a *living laboratory*, embedding sustainability values into the educational experience. Online classes further expand access and flexibility, supporting inclusive and quality education.
- **SDG 5 – Gender Equality**
  Safe, free, and accessible transport options empower all genders equally, reducing barriers to participation in academic life.
- **SDG 6 – Clean Water and Sanitation**
  Reduced fossil-fuel vehicle uses lowers risks of water contamination from oil leaks and runoff, indirectly supporting water quality.
- **SDG 7 – Affordable and Clean Energy**
  The use of biodiesel-fueled shuttle buses and the provision of electric bicycles represent a transition toward cleaner energy sources in campus mobility.
- **SDG 8 – Decent Work and Economic Growth**
  Efficient, low-cost transport supports productivity and reduces economic burdens on students and staff
- **SDG 9 – Industry, Innovation, and Infrastructure**
  The reallocation of parking areas into alternative facilities and the establishment of shared shuttle services reflect innovative infrastructure planning that prioritizes sustainability.
- **SDG 10 – Reduced Inequalities**
  Free access to transport ensures equal mobility opportunities for all members of the academic community
- **SDG 11 – Sustainable Cities and Communities**
  UNIMUS reduces reliance on private fossil-fuel vehicles by providing free shuttle services, bicycles, and e-bikes, while also implementing parking restrictions. These measures foster a more sustainable and accessible campus community.
- **SDG 12 – Responsible Consumption and Production**
  The shift from private vehicle use to shared and zero-emission transport modes illustrates responsible resource use and reduced environmental impact.

- **SDG 13 – Climate Action**
  Through the reduction of fossil-fuel vehicle entry, the promotion of ZEVs, and the integration of online classes to reduce commuting, UNIMUS actively lowers greenhouse gas emissions and contributes to climate change mitigation.
- **SDG 15 – Life on Land**
  Reduced parking areas and greener campus spaces support biodiversity and sustainable land use.
- **SDG 16 – Peace, Justice, and Strong Institutions**
  Transparent policies (e.g., restrictions on fossil-fuel vehicles, official circulars) demonstrate accountable governance in sustainability.
- **SDG 17 – Partnerships for the Goals**
  Awareness campaigns on National Public Transport Day and National Walking Day highlight UNIMUS's role in fostering collective responsibility and partnerships for sustainable mobility.

Overall, these integrated programs demonstrate UNIMUS's commitment to embedding sustainability principles into campus transportation, reducing emissions, cultivating a culture of environmentally responsible mobility, and ensuring equitable access to education.

Additional evidence link:
https://drive.google.com/drive/folders/1SsM1sx6BAKbxRr_REcPs2iJ5giPgrPVU?usp=drive_link (Shuttle service)
https://drive.google.com/drive/folders/1ppXDqhq7-BtUyOj2d9RzDsHT6Tm-Fhtf?usp=drive_link (Policies)
https://drive.google.com/drive/folders/1eW8GOalzXVKnk6o1LTskI_yVrDRDQl9-?usp=drive_link (ZEV)
https://drive.google.com/drive/folders/1InVnI_OC2eFhLFy25frP_zSs3Q-9m23x?usp=drive_link (Pedestrian path)

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.3] Total number of study program related to sustainability offered

No.	Faculty	Study Program
1	Faculty of nursing and health sciences	Diploma of Nutrition
		Diploma of Nursing
		diploma of Midwifery
		Diploma 4 of Medical Laboratory Technology
		Medical Surgical Nursing Specialist
		Profession of Midwifery
		Profession of Nurse
		Bachelor of Nutrition Science
		Bachelor of Nursing Science
		Bachelor of Midwifery
2	Faculty of education and social humanities	mathematic education
		chemistry education
		English language education
		English literature
		Profession of Teacher
3	Faculty of public health	Bachelor of public health
		Bachelor of sports
4	Faculty of food science and technology	Bachelor of Marine Science
		Bachelor of Data Science
		Bachelor of Statistics
		Bachelor of Food Technology
5	Faculty of Engineering and Computer Science	Bachelor of Architecture
		Bachelor of Informatics
		Bachelor of Electrical Engineering
		Bachelor of Civil Engineering

		Bachelor of Mechanical Engineering
		Bachelor of Information Technology
6	Faculty of economics and business	Bachelor of Agribusiness
		Bachelor of Accounting
		Bachelor of Management
7	Faculty of medicine	Profession of Medicine
		Bachelor of Medicine
8	Dental faculty	Professionof Dentistry
		Bachelor of Dentistry
9	Postgraduate	Master of Nutritional Science
		Master of Clinical Laboratory Science
		Master of Nursing
		Master of Public Health

Study Program Related to Sustainability Offered

1	Faculty of nursing and health sciences	Diploma of Nutrition	https://drive.google.com/file/d/1Os_0EKCnO6iP-1WcT58G-9vjWC4reFTX/view?usp=sharing
		Diploma of Nursing	https://drive.google.com/file/d/1zXd5BjJ5NUYEsGFceikLczE__E_8dLK_/view?usp=sharing
		diploma of Midwifery	https://drive.google.com/file/d/1jyoFTgn00G_y3-gndqm-lts4Y_R6fY4H/view?usp=sharing
		Diploma of Medical Laboratory Technology	https://drive.google.com/file/d/16kSrPjNPV3-Q180QlpTGOTEVzwK7cthy/view?usp=sharing
		Diploma 4 of Medical Laboratory Technology	https://drive.google.com/file/d/18W3YvcQb-vkszDor4OP1vfLSxm2BapN7/view?usp=sharing
		Medical Surgical Nursing Specialist	https://drive.google.com/file/d/16J9aBsWhU_VJaKwrVdLe8ret5M2wXWdh/view?usp=sharing
		Profession of Midwifery	https://drive.google.com/file/d/1bSxEGJe_V7xoK18gRKhs2ZKmZwDoreBl/view?usp=sharing

		Profession of Nurse	https://drive.google.com/file/d/16vJ-GfiLHX-LIQFfuKPNjaZff0AWe0Vf/view?usp=sharing
		Bachelor of Nutrition Science	https://drive.google.com/file/d/1GfawrzrUaJQN9X8a_tulruK0ii6dD07u/view?usp=sharing
		Bachelor of Nursing Science	https://drive.google.com/file/d/1UTnpPAigDbLuc-kDd6Asi6krkWW9W-a5/view?usp=sharing
2	Faculty of education and social humanities	mathematic education	https://drive.google.com/file/d/1wr69cPQu_wvB82BKm05VZnVux_REGAgr/view?usp=sharing
		chemistry education	https://drive.google.com/file/d/11VRUP8V6y3O_o_uNYkOyvBWRxj9qf08B/view?usp=sharing
		English language education	https://drive.google.com/file/d/14rJryGhrJBYizMdjUZv7CVuhaRxUXHYM/view?usp=sharing
		English literature	https://drive.google.com/file/d/13PHQOHt4gi8V-epcr6mITLSkZ-2IKFeS/view?usp=sharing
		Profession of Teacher	https://drive.google.com/file/d/1TZdkGMo5oMjbFXc9UlfDlXescglLIa35/view?usp=sharing
3	Faculty of public health	Bachelor of public health	https://drive.google.com/file/d/1jmg6eJy8Ic0ntnaZSxDhz8KSEl7qHVR1/view?usp=sharing
		Bachelor of sports	https://drive.google.com/file/d/1DbNuy4wBDx76zn0AWLT9mqRGA33lO4rt/view?usp=sharing

4	Faculty of food science and technology	Bachelor of Marine Science	https://drive.google.com/file/d/1gmspGmGNA62EpvTs7AfG8oKFmjdAOw1j/view?usp=sharing
		Bachelor of Data Science	https://drive.google.com/file/d/1LXFcQ1ixPNTdwSPn-ix6HzKgeZovz0jJ/view?usp=sharing
		Bachelor of Statistics	https://drive.google.com/file/d/1gyAHgr5TgZeAZDcrwrn2dgTlgMAytT0C/view?usp=sharing
		Bachelor of Food Technology	https://drive.google.com/file/d/1WID6fFOO8TViuGYdn3Wmwm3Qg9wp73jZ/view?usp=sharing
5	Faculty of Engineering and Computer Science	Bachelor of Architecture	https://drive.google.com/file/d/105FbkmPrYWBSHfMpyUuKE3nTLNuO2eBO/view?usp=sharing
		Bachelor of Informatics	https://drive.google.com/file/d/17DDVTFt9n5GYAr7WZAvSiZhDPZfLrgzd/view?usp=sharing
		Bachelor of Electrical Engineering	https://drive.google.com/file/d/1wnftjaQi7Ccg3DU8IHJodK6d77mgn7mv/view?usp=sharing
		Bachelor of Civil Engineering	https://drive.google.com/file/d/1t_pwVETGyA3YQcGgGxbLKf2MXvrQ2F5S/view?usp=sharing
		Bachelor of Mechanical Engineering	https://drive.google.com/file/d/1n8tcc6PTVQ5D0pHzbIYWecafTVdNbcd_/view?usp=sharing
		Bachelor of Information Technology	https://drive.google.com/file/d/1SkJJtTYx4R_oYq28PqeXLRPHvSs4i8yd/view?usp=sharing
6	Faculty of economics and business	Bachelor of Agribusiness	https://drive.google.com/file/d/1EfNCm4t-

			S4Gq0wwRinyd5d9UO0Q-TNpO/view?usp=sharing
		Bachelor of Accounting	https://drive.google.com/file/d/1DfSl7QdKhAvND-MF3kHAwgzAoQiDygc5/view?usp=sharing
		Bachelor of Management	https://drive.google.com/file/d/1qr8DHQKntfCm7dkbTCo3zSLjT2S8YLqD/view?usp=sharing
7	Faculty of medicine	Profession of Medicine	https://drive.google.com/file/d/1MF8AQJB8KJeXxIm-QY-2b8RBcMmIaLdf/view?usp=sharing
		Bachelor of Medicine	https://drive.google.com/file/d/1kBHA52OuuhcVkhfDUChoqhaY481064R0/view?usp=sharing
8	Dental faculty	Professionof Dentistry	https://drive.google.com/file/d/1vf9e6LZMF8jBSaWg-GNLzdP_pM6SZpI4/view?usp=sharing
		Bachelor of Dentistry	https://drive.google.com/file/d/1vf9e6LZMF8jBSaWg-GNLzdP_pM6SZpI4/view?usp=sharing
9	Postgraduate	Master of Nutritional Science	https://drive.google.com/file/d/1QfqURWQYuBocxXRy3YfcThiKkXF6UU8r/view?usp=sharing
		Master of Clinical Laboratory Science	https://drive.google.com/file/d/1ifx1gKRtbBTpfEY6a8SLRA7b7bftXKWP/view?usp=sharing
		Master of Nursing	https://drive.google.com/file/d/1TF7IQ3LOqdpC7FgIqIORf4NS2r7c0yLx/view?usp=sharing

		Master of Public Health	https://drive.google.com/file/d/1vo7XKpcdlRkLqyeSx8hrt_MmV0aeY6cx/view?usp=sharing

Unimus Electrical Engineering Students Secure PKM-PI 2025 Funding to Support SMEs through Appropriate Oil Spinner Technology

A team of Electrical Engineering students from Universitas Muhammadiyah Semarang (UNIMUS), led by **Daffa Abdur Rosyid** under the supervision of **Laily Muntasiroh, S.T., M.T.**, has successfully secured funding under the **2025 Student Creativity Program in the Implementation of Science and Technology (PKM-PI)**. The funded project, entitled *"Implementation of Appropriate Oil Spinner Technology,"* aims to enhance the productivity and competitiveness of small and medium-sized enterprises (SMEs) through the application of simple, affordable, and practical technological innovations.



The program will be implemented in collaboration with **Barokah Snack**, a local SME owned by **Mrs. Rahayu** and located in **Surokonto Wetan Village, Kendal Regency, Central Java**. The enterprise specializes in producing a variety of fried snack products and faces challenges related to excessive residual oil content, which affects product quality, shelf life, and market competitiveness.

To address this issue, the UNIMUS student team developed an **energy-efficient oil spinner** capable of effectively reducing the residual oil content in fried food products. Powered by a low-energy electric motor, the equipment is designed to be user-friendly, cost-effective, and suitable for adoption by small-scale food producers.

According to the project supervisor, **Laily Muntasiroh**, the PKM-PI program encourages students to identify real-world challenges within local communities and develop innovative solutions grounded in science and technology. "Through the PKM-PI program, students are encouraged to identify community-based problems and provide practical solutions founded on scientific knowledge and technological innovation. We hope this technology will improve the quality of our partner's products while strengthening the long-term sustainability of their business."

This achievement reflects Universitas Muhammadiyah Semarang's continued commitment to strengthening collaboration between higher education institutions and society through the implementation of the **Tri Dharma of**

Higher Education, particularly in the area of community engagement driven by scientific innovation and technological advancement.

International Collaboration in the 2025 Summer Course on Marine Ecology and Biosystematics

The Undergraduate Marine Science Study Program of the Faculty of Agricultural Science and Technology (FSTP), Universitas Muhammadiyah Semarang (UNIMUS), successfully organized the **2025 Summer Course** entitled *"International Collaborative Scientific Discussions on Marine Ecology and Biosystematics."* This academic program was conducted through an international collaboration involving the **Ecology and Biosystematics Laboratory, Department of Biology, Faculty of Science and Mathematics, Universitas Diponegoro (UNDIP)**, and the **National University of Singapore (NUS).**



The opening ceremony was held on **8 May 2025** in the Lecture Hall of the Integrated Classroom Building II at UNIMUS. The event was attended by the Dean of FSTP, **Dr. Nur Hidajah**, the Head of the Marine Science Study Program, **Hanityo Adi Nugroho**, academic staff, and 23 undergraduate Marine Science students, along with other participants enrolled in the program.

The Summer Course took place from **8–15 May 2025** in **Semarang and Karimunjawa**, bringing together marine scientists and researchers from Indonesia and abroad, as well as students from **Indonesia, Malaysia, Singapore, and several Middle Eastern countries**.

In her opening remarks, **Dr. Nur Hidajah** expressed her appreciation for the successful implementation of the program and emphasized the significance of international academic collaboration."We highly appreciate the Marine Science Study Program for establishing international partnerships with Universitas Diponegoro and the National University of Singapore. This initiative not only strengthens the academic capacity of both students and lecturers but also enhances the international reputation of the Faculty and the University. We hope that this collaboration will serve as the foundation for broader and more sustainable international partnerships".

One of the lecturers from the Marine Science Study Program, **Aulia Seto Sandhi Sanova, M.Si.**, explained that the Summer Course aimed to introduce participants to contemporary approaches for marine biodiversity assessment

and ecological monitoring, particularly through the application of **environmental DNA (eDNA)** and **Autonomous Reef Monitoring Structures (ARMS).**

According to him, the program also represents part of an ongoing collaboration with the National University of Singapore to promote molecular approaches in marine ecological research, especially the integration of **eDNA analysis** and **ARMS technology** for biodiversity monitoring.

Following the opening ceremony, participants attended a scientific discussion featuring two invited experts: **Dr. Ni Kadek Dita Cahyani** from University of Diponegoro and **Angka Mahardini, S.Kel., M.Sc., Ph.D.** from Universitas Muhammadiyah Semarang. The speakers presented recent developments in the application of eDNA and ARMS technologies for marine ecology research and marine biosystematics.

On **9 May 2025**, participants continued the program with a field expedition to **Karimunjawa National Park**, departing from Jepara Port. During the fieldwork, participants conducted hands-on sampling using ARMS installations and environmental DNA techniques. The collected samples were subsequently analyzed and discussed collaboratively as part of the program's scientific activities. The Summer Course concluded on **15 May 2025** with a final scientific discussion in Semarang, providing participants with an opportunity to evaluate field observations, exchange research findings, and strengthen international academic networking in the fields of marine ecology and biosystematics.

UNIMUS Nutrition Study Program Holds Healthy Exercise Event to Commemorate National Nutrition Day 2025

In celebration of **National Nutrition Day 2025**, the Nutrition Study Program of Universitas Muhammadiyah Semarang (UNIMUS) organized a **Healthy Exercise Program** aimed at promoting healthy lifestyles and increasing public awareness of balanced nutrition. The event was held at the courtyard of **UNIMUS Mart** and brought together university leaders, academic staff, students, and members of the university community.



The program was officially inaugurated by the Rector of UNIMUS, **Prof. Dr. Masrukhi, M.Pd.**, accompanied by the Vice Rector for Student Affairs, **Dr. Eny Winaryati, M.Pd.**, the Dean of the Faculty of Health and Medical Sciences (FIKKES), **Dr. Ali Rosidi, M.Si.**, the Head of the Nutrition Study Program, **Yuliana, S.Gz., M.Gz.**, faculty members, and undergraduate and diploma students of the Nutrition Study Program.

The healthy exercise session formed part of a broader series of activities commemorating National Nutrition Day. In addition to the exercise program, the celebration included a **health seminar** focusing on current nutrition-related issues and **community health screening services** provided through the Integrated Health Post (Posbindu), held at the Nursing Research Center (NRC) Building.

In his opening remarks, **Prof. Dr. Masrukhi** emphasized the importance of balanced nutrition as a fundamental component of maintaining good health and improving quality of life."We hope that this event will enhance awareness of the importance of balanced nutrition as a key determinant of health. Furthermore, we encourage all members of the academic community to adopt healthier lifestyles by paying greater attention to their daily nutritional intake."



The Head of the Nutrition Study Program, **Yuliana, S.Gz., M.Gz.**, also expressed her appreciation to all participants who contributed to the success of the event. She highlighted the program's commitment to continuously organizing similar activities as part of the department's contribution to improving community health through nutrition education and public engagement.

The Healthy Exercise Program received enthusiastic participation from lecturers, students, and university staff, reflecting the institution's strong commitment to promoting healthy living within the academic community. Beyond serving as a commemorative event, the activity was expected to inspire broader public awareness of the importance of maintaining healthy lifestyles and practicing balanced nutrition in everyday life.



Through initiatives such as this, Universitas Muhammadiyah Semarang reaffirms its commitment to fostering health promotion, preventive education, and community empowerment, while supporting national efforts to improve public health and nutritional well-being.

Fun with Chemistry 2025: Promoting Science Learning through Interactive and Educational Activities

The Chemistry Education Study Program of Universitas Muhammadiyah Semarang (UNIMUS) successfully organized its annual semester-break educational event, **Fun with Chemistry 2025**, at the Integrated Classroom Building II, UNIMUS. The program was designed to introduce young learners to scientific concepts, particularly chemistry, through engaging, interactive, and enjoyable learning experiences. Approximately **30 kindergarten and elementary school students** participated in the event.



The program featured a variety of hands-on scientific activities, including **Science Shows** and **Self-Experiment Sessions**, enabling participants to directly observe and perform simple scientific experiments. Throughout the activities, the students demonstrated remarkable enthusiasm by actively participating in discussions and asking questions regarding the scientific principles underlying each experiment.

One of the event's highlights was the **ecoprint workshop**, where participants learned how naturally occurring pigments from leaves and flowers can be transferred onto fabric. During this session, lecturers from the Chemistry Education Study Program, together with student committee members, explained the chemical processes involved in producing natural textile patterns and emphasized the environmental advantages of sustainable dyeing techniques.

According to **Dr. Yusrin, M.Pd.**, Head of the Undergraduate Chemistry Education Study Program, the primary objective of the event was to cultivate scientific curiosity among children while demonstrating the relevance of chemistry in everyday life."Through *Fun with Chemistry*, we aim not only to provide an enjoyable learning experience but also to inspire children to appreciate science, particularly chemistry, as a discipline that plays a significant role in everyday life and contributes to solving real-world problems."



Beyond stimulating curiosity, the event provided participants with valuable experiential learning opportunities. Each participant was able to take home the products created during the practical sessions, including their own ecoprinted fabric, illustrating that scientific knowledge can be applied creatively in daily life while also offering environmentally sustainable entrepreneurial opportunities.



As an inaugural initiative, **Fun with Chemistry** is expected to evolve into an annual outreach program with broader participation, particularly from junior and senior high school students. The program reflects UNIMUS's commitment to strengthening science literacy among younger generations by fostering interest in science through innovative and experiential learning approaches.

Through activities such as *Fun with Chemistry*, Universitas Muhammadiyah Semarang continues to promote community engagement and science education while encouraging future generations to pursue scientific knowledge and innovation for sustainable societal development.

UNIMUS Launches the Educational Waqf Forest through Collaboration with LHKP PP Muhammadiyah and LATIN

Universitas Muhammadiyah Semarang (UNIMUS) officially inaugurated the **Educational Waqf Forest**, marking a significant milestone in its commitment to environmental sustainability through waqf-based conservation. The initiative was established through a strategic partnership with the **Institute for Public Policy and Wisdom (LHKP) of Muhammadiyah Central Board** and the **Indonesian Tropical Nature Foundation (LATIN)**. The launching ceremony was held on the UNIMUS campus on **1 September 2025**.



The event was attended by distinguished representatives from Muhammadiyah, including **Dr. M. Busyro Muqoddas**, Chair of the Muhammadiyah Central Board; **Dr. Ridho Al-Hamdi**, Chair of LHKP PP Muhammadiyah; **Ir. Syafii Latuconsina**, Member of the Expert Council of the Muhammadiyah Community Empowerment Assembly; representatives of the Central Java Regional Board of 'Aisyiyah; and leaders of several Muhammadiyah regional branches. The ceremony was also attended by the University Rector, vice rectors, deans, faculty members, administrative staff, and students of UNIMUS.



The Educational Waqf Forest has been established on approximately **3,000 square meters** of university-owned waqf land. The area is planned to function not only as a productive green space but also as a **living laboratory** for education, research, and community engagement. The initiative is intended to serve as a model for sustainable forest management based on Islamic values, community empowerment, and environmental stewardship.



In his remarks, **Prof. Dr. Masrukhi, M.Pd.**, Rector of UNIMUS, emphasized that the collaboration reflects Muhammadiyah's commitment to ecological restoration and the productive utilization of waqf assets."Through this initiative, we seek to revitalize underutilized waqf land by transforming it into productive green spaces that contribute to environmental conservation. The Educational Waqf Forest represents our commitment to preserving Indonesia's natural environment while maximizing the social and ecological benefits of waqf. Today's symbolic tree planting marks the beginning of this long-term commitment."



The initiative also received strong support from the **Central Java Provincial Office of Environment and Forestry**, represented by **Mahfud Munajad**, who highlighted the broader significance of the program."The Educational Waqf Forest represents not only a spiritually meaningful initiative but also a strategic approach to forest rehabilitation in Indonesia, particularly in Central Java. We are committed to collaborating with Muhammadiyah and UNIMUS in providing tree seedlings and empowering local communities living around forest areas."



Meanwhile, **Dr. M. Busyro Muqoddas** stressed the importance of cross-sector collaboration in promoting environmental justice and sustainable natural resource management."The Educational Waqf Forest symbolizes Muhammadiyah's concrete commitment to creating a healthy, prosperous, and environmentally sustainable society. Through ethical collaboration involving academic institutions, civil society organizations, government agencies, and local communities, Muhammadiyah seeks to contribute meaningful solutions to Indonesia's forestry and environmental challenges."



The launching ceremony included a presentation of the Educational Waqf Forest master plan, a symbolic tree-planting activity, and a thematic panel discussion involving Muhammadiyah leaders, academics, and environmental practitioners. The discussion explored strategic issues related to natural resource governance, restorative economics, social forestry, and rights-based environmental policies.



The event also featured the signing of several collaborative agreements, including a Memorandum of Understanding (MoU) between UNIMUS, LATIN, and LHKP, as well as cooperation agreements involving the Faculty of Economics and Business and the Agribusiness Study Program to support future research, education, and community development initiatives.



The establishment of the Educational Waqf Forest marks the initial step toward developing a Muhammadiyah epistemic community dedicated to social forestry and environmental justice. In the long term, the initiative is expected to become a **national model for waqf-based environmental conservation**, fostering interdisciplinary collaboration among universities, governmental institutions, non-governmental organizations, religious organizations, environmental activists, and local communities in advancing sustainable development.

Learning Sustainable Waste Management: IMM Asy-Syifa Conducts a Study Visit to the MLH PWM Central Java Laboratory

As part of its commitment to strengthening environmental awareness and community engagement, the **PPK ORMAWA IMM Asy-Syifa Team** of Universitas Muhammadiyah Semarang (UNIMUS) conducted an educational study visit to the laboratory of the **Environmental Council (Majelis Lingkungan Hidup/MLH) of the Central Java Regional Board of Muhammadiyah (PWM)**, located in **Pati Regency, Central Java**, on **2 August 2025**.

The visit was designed to enhance participants' knowledge and practical understanding of sustainable waste management systems and the application of **bioreactor technology** developed by the Environmental Council.

Through this activity, student participants were introduced to innovative yet accessible technologies that can be implemented at the community level to address household waste management challenges.



The delegation was welcomed by **Dr. Muchammad Sobri, S.Pt., M.P.**, Chair of the Environmental Council of PWM Central Java, together with his team. During the introductory session, Dr. Sobri presented a range of simple, practical, and environmentally friendly technologies that have been developed to improve household waste management practices.



According to Dr. Sobri, effective waste management contributes not only to environmental sustainability but also to improving the quality of life of households, particularly by reducing the burden on family members who are primarily responsible for managing domestic waste. "Appropriate and user-friendly technologies enable household waste to be managed more efficiently and practically. When managed properly, waste should not be regarded as a burden but rather as a valuable resource with significant environmental and economic potential."

During the visit, participants were introduced to several technological innovations, including an **automated irrigation system** capable of remotely controlling watering schedules and water dosage to improve agricultural efficiency. The team also demonstrated an innovative composting method requiring minimal water usage. Unlike conventional composting techniques that typically utilize multiple containers, the improved system allows compost

production using a single container through a streamlined process involving organic waste shredding, controlled fermentation, and compost maturation.

Following the technical presentations, participants toured the laboratory facilities to observe the operation of the **submarine bioreactor system**, an environmentally friendly technology designed for organic waste processing. The visit concluded with an interactive discussion, during which participants explored the technical aspects, implementation strategies, and potential applications of the technology in community-based environmental programs.

The study visit provided valuable insights and practical inspiration for the **PPK ORMAWA IMM Asy-Syifa Team**, particularly in supporting the development of the **Climate Village Program (Program Kampung Iklim)** in **Purwosari Village, Demak Regency**. By adapting the technologies and best practices introduced during the visit, the team aims to strengthen community participation in sustainable waste management, environmental conservation, and climate resilience. This initiative reflects Universitas Muhammadiyah Semarang's continued commitment to experiential learning, community empowerment, and the promotion of environmentally sustainable technologies through collaborative partnerships with governmental and non-governmental institutions.

FKM UNIMUS Conducts Mangrove Planting Initiative to Strengthen Coastal Ecosystem Conservation

In commemoration of its **24th Anniversary**, the **Faculty of Public Health (FKM), Universitas Muhammadiyah Semarang (UNIMUS)** organized a **mangrove planting initiative** at **Tirang Beach, Semarang**, as part of its commitment to environmental conservation and sustainable coastal ecosystem management. The activity reflects the faculty's dedication to mitigating the impacts of climate change while promoting environmental stewardship among members of the academic community.

Held under the theme **"FKM Plants: Caring for the Environment, Greening Nature,"** the initiative involved **20 undergraduate students** and **six faculty members** from the Faculty of Public Health. Participants actively engaged in planting mangrove seedlings along the coastal area, which serves as a natural barrier against shoreline erosion and tidal flooding.



According to **Nurina Dyah Larasaty, S.KM., M.Kes.**, Coordinator of Student Affairs at the Faculty of Public Health, the activity represents a practical contribution by the faculty toward environmental sustainability while providing students with valuable experiential learning opportunities. "Our students demonstrated great enthusiasm throughout the activity. By participating directly in mangrove planting, they gained first-hand experience of the

ecological importance of mangrove forests in protecting coastal environments from erosion, tidal flooding, and other environmental challenges."

Meanwhile, the Dean of the Faculty of Public Health, **Dr. Sayono, S.KM., M.Kes. (Epid.)**, emphasized that mangrove restoration constitutes a tangible strategy for addressing the adverse impacts of climate change."We are proud of our students' active participation in this environmental initiative. Mangrove planting is a practical and sustainable solution for preserving coastal ecosystems while strengthening community resilience to climate change. We hope this program will encourage broader public participation in environmental conservation."

Mangrove ecosystems provide numerous ecological services, including shoreline stabilization, prevention of coastal abrasion and tidal inundation, habitat provision for diverse marine organisms, and long-term carbon sequestration. Through this initiative, the Faculty of Public Health contributes to strengthening the resilience of Semarang's coastal ecosystems while supporting broader environmental sustainability objectives.

Beyond its immediate environmental impact, the program is expected to generate long-term ecological benefits for the conservation of Tirang Beach and surrounding coastal areas. Furthermore, the initiative seeks to enhance public awareness of the critical role of mangrove ecosystems in climate change mitigation, biodiversity conservation, and sustainable coastal management.

Through programs such as this, Universitas Muhammadiyah Semarang reaffirms its commitment to integrating environmental education, community engagement, and sustainable development into its academic mission. The Faculty of Public Health remains committed to implementing educational and community-based initiatives that promote environmental health, ecological resilience, and the achievement of sustainable development goals.

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.4] Subject offered and sustainabillity subject ratio

Subject Offered	Sustainabillity Subject	Ratio
1899	393[U1]	21%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://drive.google.com/drive/folders/1VF6i5xWbRjywPf3sxmUgZQ7hstbOcikw?usp=drive_link

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education and Research (ED)

SAMPLE

[6.5] Total Research Funds Dedicated to Sustainability Research (in US Dollars)

Funding 2023

No.	Years	Scame	The name of leader	Member	Member	Title	Funding	Funding resources	Kind of funding resources
1	2023	PDP	dr. Maya Damayanti, SpPA	Herlisa Anggraini, SKM, M.Si.Med	-	Perbandingan Kadar Gula Darah Pada Kanker Payudara Sebelum Dan Sesudah Kemoterapi Berdasarkan Subtipe Di RSUD Tugurejo Semarang	11,000,000	Internal PT	PT atau Mandiri
2	2023	PDP	Rr. Annisa Ayuningtyas, S.Gz., M.Gz.	Firdananda Fikri Jauharany, S.Gz, M.Gz	-	Studi Persepsi Citra Tubuh, Status Gizi, Dan Asupan Sebagai Dasar Pengembangan Media Edukasi Gizi Pada Remaja Putri	11,000,000	Internal PT	PT atau Mandiri
3	2023	PDP	Dewi Puspitaningrum, S.Si.T, M.Kes	Dian Nintyasari Mustika, SST, M.Kes	-	Studi Kualitatif Peran Keluarga Dalam Penurunan Kecemasan Pada Wanita Dengan Infertilitas Primer Yang Melakukan Perawatan Fertilitas Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
4	2023	PDP	Ariyani Lutfitasari, S.Si.T, M.Keb	Lia Mulyanti, S.Si.T, M.Kes.	-	Faktor Resiko Maternal Kejadian BBLR di Wilayah Kerja Puskesmas	11,000,000	Internal PT	PT atau Mandiri

						Bangetayu Kota Semarang			
5	2023	PDP	Ns. Pawestri, M.Kes	Ns. Machmudah, M.Kep. Sp.Kep. Mat	-	Pemberdayaan Kader dalam Managemen Penatalaksanaan Asi Ekslusif dengan Pijat Oksitosin, Pijat Endorphin, dan Nutrisi Ibu Menyusui	11,000,000	Internal PT	PT atau Mandiri
6	2023	PDP	Dr. Ns. Ernawati, M.Kes.	Ns. Arief Yanto, M.Kep	Dr. Edy Wuryanto, M.Kep	Faktor - Faktor Yang Mempengaruhi Pemberdayaan Kader Kesehatan HIV/AIDS di Cirebon	11,000,000	Internal PT	PT atau Mandiri
7	2023	PDP	Ns. Erna Sulistyawati, M.Kep. Sp.Kep.A	Ns. Mariyam, M.Kep. Sp.Kep.An	Ns. Nur Dian Rakhmawati , S.Kep. MPH	Pengaruh Pemberian Madu Terhadap Konsistensi Feses Anak Diare di RS Roemani Semarang	11,000,000	Internal PT	PT atau Mandiri
8	2023	PDP	Ns. Tati Nurbiyati, M. Kep	Ns. Pawestri, M.Kes	-	Pengaruh Terapi Bantuan Hewan Terhadap Penurunan Tanda Gejala Perilaku Kekerasan Pada Pasien Dengan Gangguan Jiwa	11,000,000	Internal PT	PT atau Mandiri
9	2023	PDP	Ns. Chanif, MNS	Ns. Dwi Nur Rahmatika Puji Safitri, M.Kep	Aric Vranada, MSN	Pengaruh Penerapan Model Triase Emergency Severity Index (ESI) Terhadap Response Time dan Kepuasan Layanan di Instalasi Gawat Darurat	11,000,000	Internal PT	PT atau Mandiri
10	2023	PDP	Meutia Srikandi Fitria, M.Biotech	Aprilia Indra Kartika, S.Pd. M.Biotech	-	Efektifitas Ektrak Bahan Alami Sebagai Bahan Pengawet Pada Seafood Ditinjau Dari Profil Protein Berbasis Sds-Page	11,000,000	Internal PT	PT atau Mandiri
11	2023	PDP	Dra. Sri Sinto Dewi, M.Si.Med	Andri Sukeksi, SKM, M.Si	-	Aktivitas Enzimatik Bakteri Asam Laktat Isolat Lokal Sebagai Probiotik	11,000,000	Internal PT	PT atau Mandiri

12	2023	PDP	dr. Hema Dewi Anggraheny, M.Kes	dr. Galuh Ramaningrum, Sp.KA	dr. Tri Kartika Setyarini, M.Si.Med, Sp.A,	Faktor Risiko Feeding Difficulty Pada Anak Usia 24-36 Bulan; Mixed Method Studi	11,000,000	Internal PT	PT atau Mandiri
13	2023	PDP	dr. Esti Widiasih, Sp.GK	dr. Muhammad Omar Rusydi, Sp. U	dr. Rina Purnamasari,	Faktor -Faktor Yang Mempengaruhi Kejadian Konstipasi pada Pasien Gagal Ginjal Dengan Hemodialisis	11,000,000	Internal PT	PT atau Mandiri
14	2023	PDP	Dr. dr. Jacobus Albertus Auwyang, Sp.PD	dr. Esti Widiasih, Sp.GK	-	Profil Enzim Hati Sebagai Prediktor Nafld Pada Pasien Diabetes Mellitus	11,000,000	Internal PT	PT atau Mandiri
15	2023	PDP	dr. Rudiansyah Harahap, Sp.BO	dr. Nabil Hajar, M.Biomed, AIFO-K	dr. Ivo Devi Kristiyani, SpB, M.Si.Med	Hubungan Antara Indeks Masa Tubuh, Ankle Rom Dan Bimalleolar Width Terhadap Kejadian Chronic Ankle Instability Pada Atlet Bola Basket	11,000,000	Internal PT	PT atau Mandiri
16	2023	PDP	dr. Bondan Prasetyo, Sp.B, M.Si.Med	dr. Rudiansyah Harahap, Sp.BO	dr. Muhammad Riza Setiawan, M.Sc	Hubungan Antara Indeks Masa Tubuh Dan Postur Kerja Terhadap Keluhan Nyeri Lutut (Osteoarthritis Genue) Pada Pengayuh Becak Di Menara Kudus	11,000,000	Internal PT	PT atau Mandiri
17	2023	PDP	Ns. Mariyam, M.Kep. Sp.Kep.An	Ns. Erna Sulistyawati, M.Kep. Sp.Kep.A	Dr. Ns. Vivi Yosafianti Pohan, M.Kep.	Analisis Kebutuhan Perawatan Di Rumah Pada Anak Leukemia	11,000,000	Internal PT	PT atau Mandiri
18	2023	PDP	Ns. Arief Shofyan Baidhowy, M.Kep	Ns. Dwi Nur Rahmatika Puji Safitri, M.Kep	-	Stabilisasi Tekanan Darah Dan Kualitas Tidur Melalui Foot Reflexology Therapy Pada Pasien Dengan Hipertensi	11,000,000	Internal PT	PT atau Mandiri
19	2023	PDP	Ns. Nugroho Lazuardi, M.Kep	Ns. Warsono, M.Kep., Sp.Kep.MB	Sri Harmini Sundarwati, S.Kp., M.Kep.	Analisa Kebutuhan Pakaian Yang Adaptif Pada Pasien Penyakit Ginjal Kronis Yang	11,000,000	Internal PT	PT atau Mandiri

						Menjalani Hemodialisis			
20	2023	PDP	Ns. Anita Rachmawati , M.Kep	Dr. Tri Hartiti, SKM, M.Kes.	-	Tantangan Perawat Manager Dalam Penerapan Evidence Based Nursing Practice (BNP)	11,000,000	Internal PT	PT atau Mandiri
21	2023	PDP	Sherkia Ichtiarsi Prakasiwi, S.S.T., M. Keb	Umi Khasanah, SST, M.Keb	-	Analisis Penatalaksanaan Sistem Rujukan (Baksokuda) Di Praktek Mandiri Bidan Wilayah Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
22	2023	PDP	Indri Astuti Purwanti, S.ST, M.Kes	Dewi Puspitaningrum, S.Si.T, M.Kes	-	Penanganan Kegawatdaruratan Maternal Di Brati, Grobogan, Jawa Tengah	11,000,000	Internal PT	PT atau Mandiri
23	2023	PDP	Maria Ulfah Kurnia Dewi, S.Si.T., M.Keb	Nuke Devi Indrawati, S. SiT, M. Kes	-	Efektivitas E-Health Program Perencanaan Persalinan Dan Pencegahan Komplikasi (P4K) Terhadap Pengetahuan Ibu Tentang Preventif Morbiditas Dan Mortalitas Neonatus	11,000,000	Internal PT	PT atau Mandiri
24	2023	PDP	Umi Khasanah, SST, M.Keb	Sherkia Ichtiarsi Prakasiwi, S.S.T., M. Keb	-	Model Kognitif Sosial Bandura Dalam KIE Menyusui Di Praktik Mandiri Bidan Wilayah Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
25	2023	PDP	R. Ery Wibowo Agung Santosa, SE, MSi.Ak, CA	Nur Khatik, SE, M.Si	-	Analisis Pengaruh Financial Literacy, Financial Technology dan Demografi Usia Terhadap Perilaku Keputusan Investasi Pengusaha	11,000,000	Internal PT	PT atau Mandiri
26	2023	PDP	Nurcahyono, S.E., M.S.A.	Ayu Noviani Hanum, SE, Akt. M.Si	Andwiani Sinarasri, SE, M.Si	Deteksi Financial Distress Pada Perusahaan Sektor	11,000,000	Internal PT	PT atau Mandiri

						Transportasi: Studi Menggunakan Model O-Score			
27	2023	PDP	Ns. Dewi Setyawati, MNS	Dr. Hardiwinoto, SE, M.Si	Dr. Fatmasari Sukesti, SE, M.Si	Dukungan Keluarga Dalam Pemenuhan Kebutuhan Spiritual ODHA Pada Kelompok Homoseksual	11,000,000	Internal PT	PT atau Mandiri
28	2023	PDP	Dr. Nurrahman, M.Si.	R. Ery Wibowo Agung Santosa, SE,MSi.Ak, CA	-	PEMBUATAN SUP LABU KUNING INSTAN DENGAN PENAMBAHAN BERBAGAI BAHAN PENGENTAL	11,000,000	Internal PT	PT atau Mandiri
29	2023	PDP	Anindya Prasisca Rena Zhetira Putri, SST, M..Sc	Alwiyah, SE, M.Si	Dr. Ari Dwi Astono, S.Pd, M.M.	Risk Management On Bank Performance With Good Corporate Governance As Moderating Variable	11,000,000	Internal PT	PT atau Mandiri
30	2023	PDP	Ida Kristiana, SE, M.Si	Dr. Hardiwinoto, SE, M.Si	-	The Influence Of Subjective Norms, Tax Rate, Intentions, And Religiousity, Against Tax Evasion : Perspective Of Private Taxpayers In Semarang City	11,000,000	Internal PT	PT atau Mandiri
31	2023	PDP	Dr. Abdul Kharis Almasyhari , SE, M.Si	Dr. Fatmasari Sukesti, SE, M.Si	-	Dampak Pandemi Covid-19 Terhadap Kinerja Penerbit Buku Di Jawa Tengah	11,000,000	Internal PT	PT atau Mandiri
32	2023	PDP	Ayu Noviani Hanum, SE, Akt. M.Si	Nurcahyono, S.E., M.S.A.	Andwiani Sinarasri, SE, M.Si	Pengaruh Public Policy, Information Technology, Tax Morale, Love Of Money Dan Perception Of Corruption Terhadap Perilaku Penggelapan Pajak (Tax Evasion) Dengan Religiusitas Sebagai Variabel Moderasi	11,000,000	Internal PT	PT atau Mandiri

33	2023	PDP	Sriyono, S.Ag. M.Pd	Mohammad Ridwan, SE, M.Ak.	Dr. Ali Imron, S.Pd.I, M.Pd.I	Strategi Penghimpunan Zakat, Infaq Dan Shadaqah Di Lembaga Amil Zakat Infaq Shadaqah Muhammadiyah (Lazismu) Pada Era Pandemi Covid 19 Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
34	2023	PDP	Andwiani Sinarasri, SE, M.Si	Nurcahyono, S.E., M.S.A.	Ayu Noviani Hanum, SE, Akt. M.Si Belum Diverifikasi	Pengaruh Pengendalian Strategis Dan Pengendalian Operasional Terhadap Kinerja Perusahaan Pemula	11,000,000	Internal PT	PT atau Mandiri
35	2023	PDP	Ns. Machmudah, M.Kep. Sp.Kep. Mat	Ns. Nikmatul Khayati, M.Kep.	Ns. Sri Hidayati, S.Kep. M.Kes	Gambaran Hubungan Kasih Sayang Ibu Dan Janin (Maternal Al-Fetal Attachment) Dan Motivasi Menyusui Pada Ibu Hamil Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
36	2023	PDP	Ns. Sri Hidayati, S.Kep. M.Kes	Ns. Machmudah, M.Kep. Sp.Kep. Mat	Ns. Nur Dian Rakhmawati , S.Kep. MPH	Pengaruh Pendampingan Terhadap Tingkat Kecemasan Ibu Partus Prematurus Iminens Di Rumah Sakit Umum Pusat Dokter Kariadi Semarang	11,000,000	Internal PT	PT atau Mandiri
37	2023	PDP	Ns. Dera Alfiyanti, M.Kep	Ns. Nury Sukraeny, S.Kep.,M.NS.	-	Perilaku Oral Care Orangtua Dan Profil Kesehatan Mulut Berdasarkan Oral Assessment Guide Pada Anak Penderita Kanker Yang Mendapatkan Kemoterapi	11,000,000	Internal PT	PT atau Mandiri
38	2023	PDP	Novita Nining Anggraini, S.S.T, M.Kes.	Dr. Fitriani Nur Damayanti, S.S.T, MH.Kes	-	Gambaran Sumber Informasi Dan Pengetahuan Tentang Self Breast Examination	11,000,000	Internal PT	PT atau Mandiri

						(Sadari) Dan Program Cerdik Pada Kader Ptm Di Wilayah Kerja Puskesmas Lebdosari Kalibanteng Kulon Semarang			
39	2023	PDP	Siti Istiana, S.SiT, M.Kes	Erna Kusumawati, SST, M.Kes	-	Faktor Resiko 4T Terhadap Kehamilan Dan Persalinan	11,000,000	Internal PT	PT atau Mandiri
40	2023	PDP	dr. Rina Purnamasari,	dr. Retno Indrastiti Retmono, Sp.KK	dr. Melok Tin Hartini, M.Kes. Sp.KK	Efektifitas Krim Ekstrak Bunga Telang Terhadap Jumlah Fibroblas Kulit Yang Terpapar Sinar Uv-B	11,000,000	Internal PT	PT atau Mandiri
41	2023	PDP	dr. Nabil Hajar, M.Biomed, AIFO-K	Dr. dr. Shofa Chasani , Sp.PD. KGH	-	Hubungan Resiko Penyakit Kardiovaskuler Dengan Kejadian Gagal Ginjal Kronik Di Rs Pku Muhammadiyah Gubug	11,000,000	Internal PT	PT atau Mandiri
42	2023	PDP	dr. Lukman Faishal Fatharani,	dr. Ivo Devi Kristiyani, SpB, M.Si.Med	dr. Bondan Prasetyo, Sp.B, M.Si.Med	Analisis Faktor Risiko Peripheral Arterial Disease Pada Pasien Dengan Ulkus Diabetes Melitus	11,000,000	Internal PT	PT atau Mandiri
43	2023	PDP	dr. Arief Tajally Adhiatma, MH.Kes	dr. Bintang Tatius Nasrullah,	-	Faktor-Faktor Yang Mempengaruhi Keterlambatan Pelaporan Kasus Kekerasan Terhadap Perempuan Dan Anak Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
44	2023	PDP	Ns. Dwi Nur Rahmantika PS., M.Kep	drg. Arimbi , MH	drg. Retno Kusniati, M.Kes	Hubungan Pengetahuan Dan Sikap Dengan Praktik Pertolongan Pertama Fraktur Pada Anggota PMR SMA N 1 Bawang	11,000,000	Internal PT	PT atau Mandiri

45	2023	PDP	Anita Rachmawati, S.Kep, Ns, M.Kep	-	Ns. Akhmad Mustofa, M.Kep	Tantangan Perawat Manager Dalam Penerapan Evidence Based Nursing Practice (EBNP)	11,000,000	Internal PT	PT atau Mandiri
46	2023	PDP	Irfanul Chakim, SKM, PhD.Sc	Dr. Ir. Rahayu Astuti, M.Kes	-	Kombinasi Pemberian Infusa Syzygium Aromaticum Dan Cinnamomum Verum Terhadap Tikus Terinduksi Streptozotocin Untuk Pencegahan Diabetes	11,000,000	Internal PT	PT atau Mandiri
47	2023	PDP	Dr. Ratih Sari Wardani, S.Si. M.Kes	Mifbakhuddin, SKM. M.Kes	-	Pengembangan Model Sebaran Tuberkulosis Menggunakan Artificial Intelligence Untuk Menghadapi Revolusi Industri 4.0	11,000,000	Internal PT	PT atau Mandiri
48	2023	PDP	Ulfa Nurullita, SKM. M.Kes	Zoky Abadi Harahap, SKM, M.Kes	-	Aktivitas Antioksidan Dalam Ekstraksi Berbagai Bagian Tanaman Kayu Secang	11,000,000	Internal PT	PT atau Mandiri
49	2023	PDP	Didik Sumanto, SKM, M.Kes(Epid)	Irfanul Chakim, SKM, PhD.Sc	-	Pelacakan HRP-2 dan pLDH Pada Populasi Sapi Di Daerah Endemik Malaria	11,000,000	Internal PT	PT atau Mandiri
50	2023	PDP	Mifbakhuddin, SKM. M.Kes	Diki Bima Prasetio, SKM, MPH	-	Pengaruh Pemberian Seduhan Daun Kelor Terhadap Kadar Asam Laktat Dalam Darah Pekerja Pembuatan Genteng Di Kabupaten Grobogan	11,000,000	Internal PT	PT atau Mandiri
51	2023	PDP	Ns. Mariyam, M.Kep.Sp.Kep.An	Nurhayati, SE, MM	-	Analisis Kebutuhan Perawatan Di Rumah Pada Anak Leukemia	11,000,000	Internal PT	PT atau Mandiri

52	2023	PDP	Zulkifli Nurul Haqq, S.M., M.SM	Dr. Haerudin, SE, M.T.	-	Peran Change Leadership Dalam Membentuk Behavioral Support For Change: Personal Valence Sebagai Mediator	11,000,000	Internal PT	PT atau Mandiri
53	2023	PDP	Dr. Yustinah , M.Pd	Faqih Sulthan , SS, MA	-	Peningkatan Kemampuan Literasi Mahasiswa Berbasis Manajemen Dan Akuntansi Penunjang Program Magang Pada Fakultas Ekonomi Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
54	2023	PDP	Setia Iriyanto, SE, M.Si.	Edy Purwanto, SE., MM	-	Analisis Implementasi Model Kepemimpinan Profetik Di Perguruan Tinggi Muhammadiyah (Studi Kasus Universitas Muhammadiyah Semarang)	11,000,000	Internal PT	PT atau Mandiri
55	2023	PDP	Rohmat Suprapto, S.Ag. M.S.I.	Dr. Mufnaetty S.Ch, M.Ag	-	Analisis Model Penyuluhan Agama Kantor Urusan Agama Guna Pencegahan Pernikahan Anak Usia Dini Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
56	2023	PDP	Heri Dwi Santoso, S.S., M.Hum	Yunita Nugraheni, SS.,M.Hum	-	Perempuan Dunia Ketiga Di Kancah Internasional Dalam Novel In The Midst Of Winter (2017): Eksistensi, Citra, Dan Potensi	11,000,000	Internal PT	PT atau Mandiri
57	2023	PDP	Yesika Maya Ocktarani, S.S., M.Hum	Nuke Devi Indrawati, S. SiT, M. Kes	-	Peningkatan Sistem Penggalangan Dana SLB Muhammadiyah Surya gemilang	11,000,000	Internal PT	PT atau Mandiri

						Melalui Digital Storytelling dan Digital Marketing			
58	2023	PDP	Yulia Mutmainnah, S.S.,M.Hum	Diana Hardiyanti, S.S, M.Hum	-	Analisis Pemilihan Bahasa Dalam Film Pendek Berbahasa Jawa "Capciptop!"	11,000,000	Internal PT	PT atau Mandiri
59	2023	PDP	Yunita Nugraheni, SS., M.Hum.	Heri Dwi Santoso, S.S., M.Hum	-	Analisis Kampanye Melawan Anti-Asianhate Dalam Pidato BTS (Bangtan Sonyeondan) Di White House Melalui Piranti Appraisal	11,000,000	Internal PT	PT atau Mandiri
60	2023	PDP	Siswandari Noertjahjani, ST, MT	dr. Yanuarita Tursinawati, M.Si.Med	-	Sistem Deteksi Dini Sinyal Electroencephalography (EEG) Di Daerah Frontal Pada Kasus Penyakit Epilepsi Dengan Menggunakan Ekstraksi Ciri Statistik Dan Seleksi Ciri Least Square Error (LSE)	11,000,000	Internal PT	PT atau Mandiri
61	2023	PDP	Rubijanto Juni Pribadi, ST, MT	Dr. T., Ir. Samsudi Raharjo, ST, MM, MT. Belum Diverifikasi	-	Aplikasi Teori Stabilitas Jaringan Pada Uji Tak Merusak Eddy Current Untuk Deteksi Cacat Di Shielded Metal Arc Welding (SMAW) Pada High Strength Low Alloy (HSLA)	11,000,000	Internal PT	PT atau Mandiri
62	2023	PDP	Dr. Ir. RM. Bagus Irawan Widyawardhana, M.Si, IPM.	M. Edi Pujianto, S.T., M.T. Belum Diverifikasi	-	Pengaruh Perubahan Temperatur Dan Perubahan Tekanan Catalytic Converter Motor Bensin Berbahan Katalis Tembaga Krom	11,000,000	Internal PT	PT atau Mandiri
63	2023	PDP	Dr. Ir. Nurrahman, M.Si	Diode Yonata, S.TP., M.T.P.	-	Sifat Fisikokimia Dan Sensori Pada Sup Labu Kuning	11,000,000	Internal PT	PT atau Mandiri

						Instan Dengan Penambahan Tepung Porang			
64	2023	PDP	Diode Yonata, S.TP., M.T.P.	Dr. Siti Aminah, S.TP., M.Si	-	Mikroenkapsulasi Senyawa Umami Dari Ekstrak Sargassum Aquifolium Dalam Beta Siklodekstrin Menggunakan Pengeringan Semprot	11,000,000	Internal PT	PT atau Mandiri
65	2023	PDP	Dr. Siti Aminah, S.TP., M.Si	Hersanti Sulistyaningrum, S.Gz, M.Gz	-	Pendugaan Umur Simpan Minuman Instan Kecambah Kedelai Yang Diperkaya Dengan Ekstrak Beras Hitam Terenkapsulasi Dengan Persamaan Arrhenius	11,000,000	Internal PT	PT atau Mandiri
66	2023	PDP	Dr. Tri Hartiti, SKM, M.Kes.	Ns. Arief Yanto, M.Kep	Ns. Eni Hidayati, M.Kep., Sp.Kep.Jiwa	Caring Spiritual Kader TB care Aisyiyah terhadap Kejadian Drupout Pengobatan di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
67	2023	PDP	Arista Kurniasari Budi Fristiani, S.SiT.Ak. M.Kes			Jumlah Leukosit Dan Eritrosit Mencit Balb-C Yang Diimunisasi Protein Telur Cacing Tambang	11,000,000	Internal PT	PT atau Mandiri
68	2023	PDP	Ria Purnawian Sulistiani, M.Gz			Aktivitas Antioksidan Dan Antibakteri Teh Daun Talas (Colocasia Esculenta L.schoot) Berdasarkan Variasi Lama Pengeringan Dan Lama Seduhan Teh	11,000,000	Internal PT	PT atau Mandiri
69	2023	PDP	Addina Rizky Fitriyanti, S.Gz., M.Gz.			Kadar Proksimat, Karakteristik Sensoris, Dan Karakteristik Fisik Brownies Mocaf Dengan	11,000,000	Internal PT	PT atau Mandiri

						Penambahan Ikan Gabus			
70	2023	PDP	Mardiyan Hayati, S.Ag, M.Ag			Nilai-Nilai Kemaslahatan Hukum Islam Dalam Transformasi Sistem Pengelolaan Daging Qurban Pada Lazismu Wilayah Jawa Tengah Melalui Program "Rendang-Mu"	11,000,000	Internal PT	PT atau Mandiri
71	2023	PDP	Gela Setya Ayu Putri, S.Tr.AK, M.Kes			Potensi Gel Lidah Buaya Sebagai Induktor Alternatif Pada Pemeriksaan Agregasi Trombosit Metode Velaskar	11,000,000	Internal PT	PT atau Mandiri
72	2023	PDP	Toeti Rahajoe, A.Md AK,SKM,M.Kes			Deteksi Gen Apoa1 (Apolipoprotein A-1) Sebagai Biomarker Inflamasi Pada Dislipidemia	11,000,000	Internal PT	PT atau Mandiri
73	2023	PDP	dr. Aisyah Lahdji, MM, MMR			Pengaruh Faktor Perilaku Terhadap Activity Of Daily Living Pasien Pasca Stroke Non Hemoragik	11,000,000	Internal PT	PT atau Mandiri
74	2023	PDP	dr. Wahju Ratna Martiningsih, Sp.M			Faktor Risiko Modifiabel Penderita Katarak	11,000,000	Internal PT	PT atau Mandiri
75	2023	PDP	Ns. Tri Nurhidayati, S.Kep, MMedEd			Efektivitas Penyuluhan Kader Tentang Deteksi Dini Depersi Pada Lansia Di Banyuroto Magelang	11,000,000	Internal PT	PT atau Mandiri
76	2023	PDP	Muhammad Sam`an , S.Si. M.Mat			Face Emotion Recognition Melalui Model Hybrid Deep Learning Berbasis Optimasi Hyperparameter	11,000,000	Internal PT	PT atau Mandiri
77	2023	PDP	Drs. Akhmad Fathurrohman , M.Kom			Implementasi QoS (Quality Of Services) Dengan	11,000,000	Internal PT	PT atau Mandiri

						Hierarchical Token Bucket (HTB) Dalam Manajemen Banwidth Internet Pada Jaringan Komputer Gedung Kuliah Bersama II (GKB II) Universitas Muhammadiyah Semarang (Unimus)			
78	2023	PDP	Dr. Maya Dian Rahmawatie, M.Sc., Apt			Aktivitas Antibakteri Dan Profil Metabolit Sekunder Bacillus sp. (Bakteri Asosiasi Produk Fermentasi Usus Holothuria Scabra)	11,000,000	Internal PT	PT atau Mandiri
79	2023	PDP	dr. Chamim Faizin, M.M.R			Perbedaan Kesiapan Interprofesional Education Kedokteran Komunitas Pada Mahasiswa Kedokteran Dan Kedokteran Gigi	11,000,000	Internal PT	PT atau Mandiri
80	2023	PDP	dr. Ika Dyah Kurniati, M.Si. Med			Hubungan Antara Kontrol Glikemik Terhadap Kesembuhan Pasien Tuberculosis Dengan Diabetes Mellitus Di RSUD Tugurejo Semarang Prov. Jateng	11,000,000	Internal PT	PT atau Mandiri
81	2023	PDP	dr. Nina Anggraeni Noviasari, M.Kes			Analisis Hambatan Dan Solusi Komunikasi Interprofesional Kedokteran Komunitas Pada Mahasiswa Kedokteran Dan Kedokteran Gigi	11,000,000	Internal PT	PT atau Mandiri
82	2023	PDP	dr. Kanti Ratnaningrum, M.Sc			Karakteristik Host Yang Berpotensi Meningkatkan Pediculosis Capistis Pada Anak	11,000,000	Internal PT	PT atau Mandiri

83	2023	PDP	dr. Andra Novitasari, M.Pd			Tantangan Kader Kesehatan Dalam Melaksanakan Perannya Di Masyarakat	11,000,000	Internal PT	PT atau Mandiri
84	2023	PDP	dr. Astin Prima Sari, Sp.THT			Hubungan Intensitas Dan Lama Paparan Bising Terhadap Kejadian Noise Induced Hearing Loss (NIHL) Pekerja Pt Kayu Perkasa Raya Juwana Kabupaten Pati	11,000,000	Internal PT	PT atau Mandiri
85	2023	PDP	Dr. Apt. Muslimah, S.Si. M.M.			Analisa Kualitas Hidup Pasien Risiko Stroke Hipertensi Metode Eq-5D-5L Di Puskesmas Tlogosari Kulon	11,000,000	Internal PT	PT atau Mandiri
86	2023	PDP	dr. Lourensya Berta Joharlina,			Evaluasi Eliminasi Filariasis Limfatik Pasca Program Eliminasi Filariasis 2020 Di Kota Pekalongan	11,000,000	Internal PT	PT atau Mandiri
87	2023	PDP	dr. Rochman Basuki, M.Sc			Pengaruh Latihan Isometric Quadriceps Terhadap Penurunan Intensitas Nyeri Pada Komunitas Lanjut Usia Dengan Osteoarthritis Lutut Di Desa Ngemplak	11,000,000	Internal PT	PT atau Mandiri
88	2023	PDP	dr. Wijayanti Fuad, MH			Analisa Perbedaan INACBGs Dan Biaya Riil Ranap-Rajal Pasien Stroke Iskemik Di Rumah Sakit Panti Rapih Yogyakarta	11,000,000	Internal PT	PT atau Mandiri
89	2023	PDP	drg. Nur Khamilatusy Sholekhah, M.M.			Efektivitas Program “Si Gundul Pecengis” Terhadap Tingkat Kebersihan Gigi Dan Mulut	11,000,000	Internal PT	PT atau Mandiri

						(Oral Hygiene) Pada Siswa Sekolah Dasar			
90	2023	PDP	Wulandari Meikawati, SKM, M.Si			Faktor Determinan Anemia Pada Remaja Putri	11,000,000	Internal PT	PT atau Mandiri
91	2023	PDP	Trixie Salawati, S.Sos, M.Kes			Persepsi Penjual Mengenai Manfaat Dan Risiko Rokok Elektrik Bagi Penggunanya (Studi Di Kota Semarang)	11,000,000	Internal PT	PT atau Mandiri
92	2023	PDP	Nurina Dyah Larasaty, SKM, M.Kes			Pengetahuan Pubertas Dan Perilaku Personal Hygiene Saat Menstruasi Remaja Putri Tunanetra Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
93	2023	PDP	Heni Rusmitasari, SKM, MKM			Analisis Kinerja Dinas Kesehatan Kota Semarang Dalam Menurunkan Angka Kematian Ibu (Aki) Dan Angka Kematian Bayi (Akb)	11,000,000	Internal PT	PT atau Mandiri
94	2023	PDP	Ismi Elya Wirdati, SKM, M.Kes			Analisis Penerapan Sistem Manajemen Keselamatan Dan Kesehatan Kerja (SMK3) Di Pt Recieve Indonesia	11,000,000	Internal PT	PT atau Mandiri
TOTAL							Rp. 1.598.500.000 Convert to USD 88958,76		

Funding external 2023

No.	Tahun	Skema	Nama Ketua	Anggota 1	Anggota 2	Judul	Dana	Sumber Dana	Jenis Sumber Pembiayaan
1	2023	PDUPT	Muhammad Yusuf, Ph.D	Dr Yunan Kholifatuddin Sya'di STP, M.Sc.		Optimasi Strategi Ekspor Produk Olahan Ikan untuk Memasuki Pasar Asean	114,456,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
2	2023	PENELITIAN TERAPAN	Dr. Eny Winaryati, M.Pd			Platform Digital Model Evaluasi pada Supervisi Pembelajaran Berbasis 4 C'S (Mesp 4C'S)	231,862,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
3	2023	PKPT	Fitria Fatichatul Hidayah, S.Si., M.Pd	Eko Yuliyanto		Pengembangan Microscale Chemistry Kit pada pembelajaran Praktikum dengan Berbagai Level Inquiry untuk Meningkatkan Keterampilan Proses Sains Peserta Didik	364,926,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
4	2023	PTUPT	Dr. AMIN SAMIASIH S.Kep, M.Si.Med	Khoiriyah	Aditya Rahman Ernanto.	Ekstrak Kulit Pisang Kepok Sebagai Gastroprotektor Melalui Jalur Antioksidan dan Antiinflamasi pada Tikus Wistar Induksi Asetosal	226,237,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

5	2023	PTUPT	Dr Dini Cahyandari S.T, M.T	Dina Mariani	drg. Dika Agung	Aplikasi 3D Printing Dengan Metode SLA (Stereo Lithography Apparatus) dan FDM (Fused Deposition Methods) Untuk Pembuatan Gigi Tiruan Berbahan Dasar PMMA (Poly Methyl Metacrylate)	333,427,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
6	2023	PTUPT	Dwi Sulistyaningsih, M.Pd	Eko Andy Purnomo		Pengembangan Model Pembelajaran Blended Learning Berbasis Science, Technology, Engineering, dan Mathematics (STEM) untuk Meningkatkan Kemampuan Berpikir Kritis Siswa	217,500,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
7	2023	PTUPT	Martyana Prihaswati, S.Si., M.Pd	Eko Andy Purnomo		Pengembangan Vark Learning Application in Mathematics untuk Meningkatkan Literasi Matematika di Tingkat	197,100,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						Perguruan Tinggi			
8	2023	PTUPT	Moh. Toni Prasetyo, S.T., M.Eng	Solechan		Efektifitas Pemanfaatan Pasir Pantai Bersilika dan Silane sebagai Pengisi Bahan Isolasi Resin Epoksi dengan Kopling Agen Vinyl Silane dan Kompatibiliser Polyethylene untuk Isolator listrik	160,695,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
9	2023	PTUPT	Dr. Nurhidajah, M.Si	Dr. Ali Rosidi, M.Si		Pengembangan Minuman Instan Kesehatan Berbasis Beras Hitam Menggunakan Teknik Mikroenkapsulasi	160,590,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
10	2023	PTUPT	Dr. Purnomo, M.Eng	drg. Dwi Windu Kinanti Arti	Dr. Ana Hidayati M., M.Si	Implementasi Atmospheric Pressure Plasma Jet pada Proses Perbaikan Material Gigi Tiruan Berbasis Polymethyl methacrylate	278,100,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
11	2023	PTUPT	Dr. Sri Darmawati, M.Si	M. Evy Prastiyanto		Cassette Rapid Test Untuk Pengembangan Alat Diagnosa Demam Tifoid	260,692,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						Berbasis Prototipe Metode Stick (Deteksi Antibodi Dan Deteksi Antigen)			
12	2023	PTUPT	Dr. Sri Rejeki, M.Kep., Sp.Mat	Achmad Solichan, S.T., M.Kom	Fitri Nuroini, S.Si., M.Sc.	Deteksi Inflamasi Jaringan Kulit (Il_1, Tnf A, Inos Dan Cox-2) dan Tingkat Nyeri Melalui Pengembangan Alat Counter Pressure Regiosakralis Elektrik sebagai Therapi Nyeri Persalinan	225,712,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
13	2023	TESIS MAGISTER	Dr MUDYAWATI S.Si, M.Kes			Analisis Varian dan Karakterisasi Molekular Sekuens Genom SARS-CoV-2 Strain Manokwari Papua Barat	29,600,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
14	2023	TESIS MAGISTER	Dr MUDYAWATI S.Si, M.Kes			Efek Kombinasi Plasma Medis dan Ekstrak Buah Naga Merah Terhadap Penyembuhan Luka Akut Terinfeksi Bakteri MRSA	30,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

15	2023	TESIS MAGISTER	Dr MUDYAWATI S.Si, M.Kes			Efektifitas Plasma Medicine Terhadap Penyembuhan Luka Kronis Terinfeksi Bakteri MRSA Berbasis Data Histopatologi, Hematologi, dan Molekular	28,800,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
16	2023	TESIS MAGISTER	Dr MUDYAWATI S.Si, M.Kes			Korelasi Profil Laboratorium Klinis dan Demografi Pasien Diabetes Mellitus dengan Tingkat Keparahan CoViD-19	30,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
17	2023	TESIS MAGISTER	Dr SRI DARMAWATI	Stalis Norma Ethica		Keanekaragaman Jenis Bakteri pada Pus Luka Diabetes di Klinik Kitamura Pontianak Berdasarkan Sekuen Gen 16S Rrna dan Pola Resistensinya terhadap Antibiotik	29,800,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
18	2023	TESIS MAGISTER	Dr SRI DARMAWATI	Stalis Norma Ethica		Karakterisasi Molekuler Gen Fimh Escherichia Coli pada Sampel Urin Penderita Infeksi Saluran	30,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						Kemih di RSUP Sanglah Denpasar			
19	2023	TESIS MAGISTER	Dr STALIS NORMA ETHICA S.Si, M.Si	Maya Dian Rakhmawatie		Evaluasi Potensi Enzim Protease Fibrinolitik dari Bakteri Isolat Alga Coklat Chnoospora sp. Asal Perairan Laut Jepara sebagai Agen Antitrombosis	27,200,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
20	2023	TESIS MAGISTER	Dr STALIS NORMA ETHICA S.Si, M.Si			Purifikasi dan Analisis Aktivitas Antitrombosis Protease Bakteri Bacillus cereus HSFI-10 dan Bacillus thuringiensis HSFI-12 Isolat Teripang Laut Holothuria scabra	24,400,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
21	2023	TESIS MAGISTER	Dr Dra ANA HIDAYATI MUKAROMAH			Uji Histopatologi dan Kadar MDA Gaster Tikus Putih (Rattus Norvegicus) yang Dipapar Formalin dan Diterapi Ekstrak Biji Anggur (Vitis Vinifera)	30,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
22	2023	TESIS MAGISTER	Dr. AMIN SAMIASIH	M Fatkhul Mubin.		Promeswari (Program Mencegah Komplikasi	29,000,000	DRTPM	Lembaga Dalam

			S.Kep, M.Si.Med			Diabetes Melitus) Terhadap Kualitas Hidup Pasien Diabetes			Negeri (di luar PT)
23	2023	PTKN	Dr STALIS NORMA ETHICA S.Si, M.Si	Ragil Saptaningtyas M		Prototipe Mikrokapsul Protease Fibrinolitik dari Bakteri Bacillus tequilensis HSFI-5 Isolat Teripang Pasir Laut untuk Pengembangan Agen Antitrombosis	195,600,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
24	2023	PDKN	Dr SAYONO M.Kes	Dr. drg. Risyandi Anwar, Sp.KGA		Isolasi Senyawa Kimia Tumbuhan Rimpang Lokal sebagai Bahan Aktif Repelen dan Larvasida dalam Upaya Pencegahan Penyakit Demam Berdarah Dengue	200,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
25	2023	PTUPT	Dr BUDI SANTOSA M.Si	Dr. Sufiati Bintanah, M.Si	Tulus Ariyadi, M.Si.	Es Krim Kombinasi Ekstrak Daun Padi Ir Bagendit dengan Air Kelapa Muda untuk Pencegahan Kerusakan Fungsi Ginjal	196,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						akibat Pajanan Merkuri			
26	2023	PPVUPT	Muhammad Evy Prastiyanto, S.Si., M.Sc	Sri Darmawati	Ana Hidayati M.	Natural Product dari Biji Tujuh Kultivar Mangga (Mangifera indica L) Asli Indonesia untuk Pembuatan Plester dalam Upaya Penangan Infeksi Luka yang disebabkan Multidrug Resistance (MDR) Bacteria	170,955,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
27	2023	PENELITIAN DASAR	Dr STALIS NORMA ETHICA S.Si, M.Si			Bioprospeksi Enzim Alginat Liase dan Overekspresi Gen Penyandinya dari Kelompok Bakteri Pendegradasi Alginofit Hydroclatrus sp. sebagai Agen Antibiofilm Bakteri Patogen	161,480,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
28	2023	KEDAIREKA	Dr STALIS NORMA ETHICA S.Si, M.Si			Pengembangan Inovasi Salep Autolisis dengan Bahan Aktif Enzim Protease Bakteri Laut	300,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						untuk Penyembuhan Luka			
TOTAL							Rp. 1.808.946.000 Convert to USD **100670,38**		

Funding 2024

No.	Years	Scame	The name of leader	Member	Member	Title	Funding	Funding resources	Kind of funding resources
1	2024	PDP	Arief Tajally	Afiana Rohmani		Analisis formasi Vertebra Thorax 12 (TI2) dengan pendekatan teknik Geometric Morphometric menggunakan image 3D CT Scan	11,000,000	Internal PT	PT atau Mandiri
2	2024	PDP	Chamim Faizin	Aisyah Lahdji		Pengaruh Stigma Masyarakat Dan Dukungan Keluarga Terhadap Kepatuhan Minum Obat Penderita HIV/AIDS	11,000,000	Internal PT	PT atau Mandiri

3	2024	PDP	Andra Novitasari	Romadhoni		Strategi Koping dan Burnout Syndrome di Kalangan Mahasiswa Kedokteran	11,000,000	Internal PT	PT atau Mandiri
4	2024	PDP	Astin Prima Sari	Wahju Budi Martono		Hubungan Faktor Risiko Bayi Berat Badan Lahir Rendah, Pemberian ASI Esklusif, dan Paparan Asap Rokok Terhadap Kejadian Infeksi Saluran Pernafasan Akut pada Balita di Puskesmas Lebdosari Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
5	2024	PDP	Lukman Faishal Fatharani	Galih Prakasa Adhiyatma		Kajian Nyeri Leher Dengan Forward Head Posture Pada Mahasiswa Fakultas Kedokteran Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
6	2024	PDP	Muhammad Riza Setiawan	Hema Dewi Anggraheny		Faktor Yang Mempengaruhi Perilaku Wanita Usia Subur (WUS) Di Rusunawa Kelurahan Kaligawe Dalam Mengikuti Pemeriksaan Iva (Inspeksi Visual Asam Asetat)	11,000,000	Internal PT	PT atau Mandiri
7	2024	PDP	Wahju Ratna Martiningsih	Ika Dyah Kurniati	Swasty	Hubungan Perilaku Penggunaan Komputer Terhadap Status Refraksi Pada Mahasiswa	11,000,000	Internal PT	PT atau Mandiri

						Fakultas Kedokteran Universitas Muhammadiyah Semarang			
8	2024	PDP	Kanti Ratnaningrum	dr. Lourensya Berta Joharlina		Analisis Faktor Risiko Dermatitis pada SMP VIP Al-Huda Selama Pandemi Covid-19	11,000,000	Internal PT	PT atau Mandiri
9	2024	PDP	Maya Dian Rakhmawatie	dr. Devita Diatri, M.Sc		Analisis Komponen Utama Data Liquid Chromatography -Mass Spectoscopy (LC-MS) Metabolit Sekunder Streptomyces parvus InaCC A758 Hasil Co-Kultur	11,000,000	Internal PT	PT atau Mandiri
10	2024	PDP	Merry Tiyas Anggraini	dr. Susilo Budi Pratama, MKes		Analisis Faktor Sosiodemografi Yang Mempengaruhi Kecemasan Pasien Yang Menjalani Hemodialisis	11,000,000	Internal PT	PT atau Mandiri
11	2024	PDP	Nina Anggraeni Noviasari	Muslimah		Analisa Biaya Medik Langsung Pasien Stroke Iskemik Di Rumah Sakit Roemani Muhammadyah Semarang	11,000,000	Internal PT	PT atau Mandiri
12	2024	PDP	Oky Rahma Prihandani	dr. Agus Saptanto, SpA	dr. Bintang Tatius	Faktor-Faktor Yang Mempengaruhi Kejadian Angguan Tidur Pada Anak Usia 6-36 Bulan	11,000,000	Internal PT	PT atau Mandiri

13	2024	PDP	Rina Purnamasari	dr. Melok Tin, M.Kes, Sp.KK		Hubungan Tingkat Pengetahuan dan Sikap Terhadap Penggunaan Tabir Surya Siswa di SMK Garuda Nusantara Kabupaten Demak	11,000,000	Internal PT	PT atau Mandiri
14	2024	PDP	Nur Muttaqien Zuhri	Nurul Puspita		Manajemen Resiko Rantai Pasok Agribisnis Jagung Hibrida Untuk Meningkatkan Hasil Rendemen Di Provinsi Jawa Tengah	11,000,000	Internal PT	PT atau Mandiri
15	2024	PDP	Slamet Saefudin	Dini Cahyandari		Modifikasi Permukaan Magnesium Az31 Menggunakan Pcl/Ha Sebagai Material Implan Biodegradable	11,000,000	Internal PT	PT atau Mandiri
16	2024	PDP	Annisa Nurul Hikmah	Erma Lestari		Pengaruh Ekstrak Etanol Kayu Secang (Caesalpinia Sappan L.) Terhadap Hasil Pemeriksaan Clotting Time Metode Lee And White	11,000,000	Internal PT	PT atau Mandiri
17	2024	PDP	Ilham Yustar Afif	Muhammad Subri		Studi Efek Hip Joint Bearing Surface Texturing Terhadap Performansi Cemented Hip Prosthetic	11,000,000	Internal PT	PT atau Mandiri
18	2024	PDP	Kartika Nugraheni	Zahra Maharani Latrobdiba		Pengelolaan Inflamasi Dan Hiperglikemia	11,000,000	Internal PT	PT atau Mandiri

						Melalui Nutrisi Enteral Kaya Antioksidan Dan Rendah Indeks Glikemik Untuk Pasien Stroke-Diabetes Melitus			
19	2024	PDP	Toeti Rahajoe	Raksi Pranindira		Aktivitas In-Vitro Crude Protease Fibrinolitik Dari Isolate Staphylococcus Hominis Hsft-2 Sebagai Antikoagulan Alternatif Untuk Pemeriksaan Laboratorium Hematologi	11,000,000	Internal PT	PT atau Mandiri
20	2024	PDP	Ardi Afriansyah	Sudarwin		Isolasi Dan Analisis Biodiversitas Bakteri Penghasil Enzim Protease Serta Analisis Kadar Iron (Zat Besi) Pada Tiram Pasifik (Crassostrea Gigas) Sebagai Agen Antikoagulan Dan Antianemia	11,000,000	Internal PT	PT atau Mandiri
21	2024	PDP	Muhammad Muhibbi	Sayid Fariz Bin Seh Abubakar	Andre Yogaswara	Terapi Massage Metode Ali Satia Graha Terhadap Rom Ankle Atlet Senam Artistik Putri Klub Wimilia Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
22	2024	PDP	Ahad Agafian Dhuha	Agung Widodo	Ismi Elya Wirdati	Pengaruh Metode Latihan Fartlek Terhadap Peningkatan Kebugaran Jasmani Mahasiswa Fakultas	11,000,000	Internal PT	PT atau Mandiri

						Kesehatan Masyarakat Universitas Muhammadiyah Semarang			
23	2024	PDP	Maria Ulfah Kurnia Dewi	Nuke Devi Indrawati		Efektivitas E-Health Segitiga Assesment Gawat Anak Terhadap Time Response Mahasiswa Bidan	11,000,000	Internal PT	PT atau Mandiri
24	2024	PDP	Yustinah	Jumai		Bahasa Iklan Berbasis Ekonomi Kreatif Fakultas Ekonomi Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
25	2024	PDP	Fitri Dwi Indarti	Rohman Eko Santoso		Adaptive Reuse Gedung Arsip Bank Jateng Di Kawasan Cagar Budaya Pekojan Semarang	11,000,000	Internal PT	PT atau Mandiri
26	2024	PDP	Warsono	Anita Rachmawati		Pengaruh Neuromuskular Control Terhadap Intensitas Nyeri Dan Luas Gerak Sendi (Lgs) Pada Penderita Osteoarthritis Lutut	11,000,000	Internal PT	PT atau Mandiri
27	2024	PDP	Ns. Dewi Setyawati, MNS	Ida Kristiana		Dukungan Keluarga Dalam Pemenuhan Kebutuhan Spiritual Odha Pada Kelompok Homoseksual	11,000,000	Internal PT	PT atau Mandiri
28	2024	PDP	Yusrin	Ana Hidayati Mukaromah		Uji Kualitas Arang Tempurung Kelapa Teraktivasi	11,000,000	Internal PT	PT atau Mandiri

						Variasi Konsentrasi Larutan Cacl2 Dan Variasi Suhu Terhadap Penurunan Kadar Ion Chromium (Vi)			
29	2024	PDP	Ihsan Fathoni Amri	Dannu Purwanto		Estimasi Least Squares Pada Regresi Semiparametrik Berdasarkan Fungsi Sinus Dan Cosinus Dalam Estimator Deret Fourier	11,000,000	Internal PT	PT atau Mandiri
30	2024	PDP	Iqbal Hidayatsyah Noor	Ali Imron		Penanaman Nilai Nlai Pendidikan Islam Pada Pondok Tahfidz Putra Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
31	2024	PDP	Ratna Hardianningrum	Abdul Rohman		Perancangan Bangunan Rumah Kantor Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
32	2024	PDP	Venissa Dian Mawarsari	Martyana Prihaswati		Optimalisasi Proses Berpikir Geometris Ditinjau Dari Kemampuan Spasial Melalui Model Vanhess Learning Berbantuan “E-Module Geometrical”	11,000,000	Internal PT	PT atau Mandiri
33	2024	PDP	Ariyani Lutfitasari	Lia Mulyanti		Faktor-Faktor Yang Berpengaruh Terhadap Kejadian Pneumonia Pada Balita Di Puskesmas Kedungmundu	11,000,000	Internal PT	PT atau Mandiri

34	2024	PDP	Rochman Basuki	Sigit Moerjono		Hubungan Lingkar Betis, Lingkar Paha Dan Panjang Tungkai Dengan Kecepatan Lari 100 Meter Pada Atlit Lari Di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
35	2024	PDP	Nabil Hajar	Yanuarita Tursinawati		Identifikasi Dan Uji Aktivitas Antidiabetes Senyawa Melatonin Ekstrak Rimpang Jahe (Zingiber Officinale Rosc)	11,000,000	Internal PT	PT atau Mandiri
36	2024	PDP	Heri Dwi Santoso	Yunita Nugraheni		Kajian Feminisme Multikultural Pada Novel The Girl Who Saved The King Of Sweden (2013)	11,000,000	Internal PT	PT atau Mandiri
37	2024	PDP	Vivi Yosafianti Pohan	Arief Yanto		Perilaku Caring Perawat Hemodialisa Dengan Motivasi Klien Terapi Hemodialisis	11,000,000	Internal PT	PT atau Mandiri
38	2024	PDP	Budi Tri Santosa	Yulia Mutmainnah		Pemikiran Siti Walidah Tentang Islam Dan Tantangan Budaya Jawa Dalam Naskah Drama Nyai Ahmad Dahlan (2017): Sosio-Hermenutika Gadamer	11,000,000	Internal PT	PT atau Mandiri
39	2024	PDP	Didik Sumanto	Tri Dewi Kristini		Kontribusi Keberadaan Tempat Perindukan Vektor Dan Sumber Pakan Daran Non Manusia Dalam Penyebaran	11,000,000	Internal PT	PT atau Mandiri

						Malaria Di Desa Endemik			
40	2024	PDP	M. Al Haris	Saeful Amri		Analisis Risiko pada Saham PT. Unilever Indonesia dengan Metode Expected Shortfall Berdasarkan Model GBM with Jump Diffusion	11,000,000	Internal PT	PT atau Mandiri
41	2024	PDP	Indah Manfaati Nur	Laily Muntasiroh	Muhammad Saifudin Nur	Implementasi Adaptive Synthetic Bernoulli Naïve Bayes Untuk Mengatasi Imbalance Class Data Pada Kasus Mental Health Di Indonesia	11,000,000	Internal PT	PT atau Mandiri
42	2024	PDP	Fatkhurokhman Fauzi	Rochdi Wasono		Forecasting Pm10 Dan Pm2.5 Di DKI Jakarta Menggunakan Pendekatan Fungsional Data Analysis (Fda) Dan Long-Short-Term Memory (Lstm)	11,000,000	Internal PT	PT atau Mandiri
43	2024	PDP	Prizka Rismawati Arum	Mohammad Ridwan		Pemodelan Kondisi Perekonomian di Indonesia Menggunakan Metode Spatial-Seemingly Unrelated Regression (S-SUR)	11,000,000	Internal PT	PT atau Mandiri
44	2024	PDP	Hema Dewi Anggraheny	Galuh Ramaningrum		Faktor Risiko Stunting Pada Ibu Bekerja Dan Tidak Bekerja Di Wilayah Kota Semarang	11,000,000	Internal PT	PT atau Mandiri

45	2024	PDP	Desi Ariyana Rahayu	Tri Nurhidayati	Mohammad Fatkhul Mubin	Kebutuhan Spiritual Pasien Kanker	11,000,000	Internal PT	PT atau Mandiri
46	2024	PDP	Aisyah Lahdji	Merry Tiyas Anggraini		Analisis Faktor Risiko Psychological Well Being Pada Pasien Pasca Stroke Non Hemoragik	11,000,000	Internal PT	PT atau Mandiri
47	2024	PDP	Sherkia Ichtiarsi Prakasiwi	Endah Sulistyowati		Analisis Determinan Kejadian Dismenore Di Pondok Pesantren Al Mabrur Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
48	2024	PDP	Dera Alfiyanti	Mariyam		Partisipasi Orang Tua Dalam Perawatan Dan Kualitas Hidup Anak Selama Hospitalisasi	11,000,000	Internal PT	PT atau Mandiri
49	2024	PDP	Muhammad Sam`an	Muhammad Munsarif	Safuan	Seleksi Fitur Berbasis Grey Wolf Optimization Untuk Prediksi Gagal Bayar Pinjaman Online	11,000,000	Internal PT	PT atau Mandiri
50	2024	PDP	Diana Hardiyanti	Anjar Setiawan		Perbandingan Ideologi Penerjemah Dalam Terjemahan Onomatope Pada Cerita Anak Di Web Storyweaver	11,000,000	Internal PT	PT atau Mandiri
51	2024	PDP	Novita Nining Anggraini	Siti Nurjanah		Analisis Determinan Praktik Pemeriksaan Payudara Sendiri Pada Mahasiswi Fakultas Ilmu Keperawatan Dan Kesehatan	11,000,000	Internal PT	PT atau Mandiri

						Universitas Muhammadiyah Semarang			
52	2024	PDP	Devita Diatri	Rina Purnamasari	Erwin Ulinnuha Fahreza	Efektifitas Ekstrak Bunga Telang (Clitoria Ternatea L) Terhadap Perbaikan Kerusakan Sel Hepar Tikus Putih Jantan Galur Wistar (Rattus Norvegicus) Dengan Hepatitis Toksik	11,000,000	Internal PT	PT atau Mandiri
53	2024	PDP	Nurina Dyah Larasaty	Trixie Salawati		Perilaku Pencegahan HIV/AIDS pada Mahasiswa Gay di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
54	2024	PDP	Rokhani	Akhmad Mustofa		Penularan HIV/AIDS Di Kalangan Kaum Muda Dalam Landasan Perspektif “Health Belief Model” Dan Praktik Pencegahannya	11,000,000	Internal PT	PT atau Mandiri
55	2024	PDP	Machmudah	Reina Dhamanik	Nur Dian Rakhmawati	Pengaruh Edukasi Laktasi Berbasis Teori Experiential Learning Terhadap Kesiapan Menyusui Pada Ibu Hamil Di Puskesmas Wilayah Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
56	2024	PDP	Addina Rizky Fitriyanti	Fika Shafiana Nadia		Karakteristik Fisiko Kimia Ekstrak Dan Tepung Berbasis Ikan Gabus	11,000,000	Internal PT	PT atau Mandiri

						(Channa Striata) Sebagai Pangan Fungsional			
57	2024	PDP	Ernawati	Edy Wuryanto		Potensi Ekstrak Daun Binahong (Anredera Cordifolia) Terhadap Isolat Koloni Bakteri Lesi Oral Untuk Perawatan Anak Hiv/Aids	11,000,000	Internal PT	PT atau Mandiri
58	2024	PDP	Bintang Tatius Nasrullah	Romadhoni		Faktor-Faktor Yang Mempengaruhi Daya Tahan Kardiorespirasi Mahasiswa Fakultas Kedokteran Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
59	2024	PDP	Zoky Abadi Harahap	Ulfa Nurullita		Identifikasi Bahaya Lingkungan Kerja Fisik, Kimia, Dan Ergonomi di Industri Batik	11,000,000	Internal PT	PT atau Mandiri
60	2024	PDP	Mifbakhuddin			Faktor-Faktor Yang Berhubungan Dengan Kejadian Needlestick And Sharp Injuries (Nssi) Pada Karyawan Di Rumah Sakit	11,000,000	Internal PT	PT atau Mandiri
61	2024	PDP	Faqih Sulthan	Riana Eka Budiastuti		Tubuh Ambe Dan Negosiasi Antarruang Dalam Cerpen “Sebelum Berangkat Ke Surga” Karya Faisal Oddang	11,000,000	Internal PT	PT atau Mandiri
62	2024	PDP	Retno Kusniati			Penilaian Budaya Keselamatan Pasien	11,000,000	Internal PT	PT atau Mandiri

63	2024	PDP	Erna Kusumawati	Siti Istiana		Evaluasi Penggunaan Partograf Pada Bidan Pasca Pelatihan Asuhan Persalinan Normal (APN) Di P2KP-KR Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
64	2024	PDP	Suharti	Sukamto		Pengaruh Leverage Dan Profitabilitas Terhadap Financial Distress Pada Perusahaan Sektor Infrastruktur Dengan Firm Size Sebagai Variabel Moderasi	11,000,000	Internal PT	PT atau Mandiri
65	2024	PDP	Setia Iriyanto	Agung Nusantara		Analisis Pengaruh Lokasi, Harga, Fasilitas, Dan Kualitas Pelayanan Terhadap Kepuasan Mahasiswa Fakultas Ekonomi Unimus	11,000,000	Internal PT	PT atau Mandiri
66	2024	PDP	Hayyu Failasufa	Bawa Adiwinarno		Gambaran Tingkat Keparahan Karies Siswa Tunanetra Di SLB Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
67	2024	PDP	Wahju Budi Martono	Astin Prima Sari		Kualitas Hidup Penderita Tonsilitis Kronik Yang Dilakukan Tonsilektomi Di RS Pantiwilasa Semarang	11,000,000	Internal PT	PT atau Mandiri
68	2024	PDP	Ayu Noviani Hanum	Andwiani Sinarasri		Faktor-Faktor yang Mempengaruhi Agresivitas Pajak Selama dan	11,000,000	Internal PT	PT atau Mandiri

						Setelah Covid-19 (Studi Kasus pada Perusahaan Manufaktur yang Tercatat di Bei 2019-2023)			
69	2024	PDP	Nurhayati	Andika Baskara		Pengaruh Transformasi Digitalisasi Inovasi Umkm Untuk Meningkatkan Produktivitas Dan Harga Sebagai Variabel Moderating di Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
70	2024	PDP	Bagus Irawan Widyawardhana	Achmad Solichan		Karakterisasi Catalytic Converter Motor Bensin Berbahan Plat Tembaga Berlapis Krom	11,000,000	Internal PT	PT atau Mandiri
71	2024	PI	Yanuarita Tursinawati	dr.Arum Kartikadewi, MSi,Med		Korelasi Obesitas dan Hipertensi terhadap Indeks Aterogenik Plasma dan Rasio LDL/HDL sebagai Prediktor Komplikasi Makrovaskular Diabetes Melitus (DM) Tipe 2 Etnis Jawa	11,000,000	Internal PT	PT atau Mandiri
72	2024	PDP	Drs. Triyono, MM			Pengembangan Potensi Kearifan Lokal Sektor Pariwisata Di Desa Melikan Kecamatan Wedi Kabupaten Klaten	11,000,000	Internal PT	PT atau Mandiri
73	2024	PDP	Arum Ambarsari, S.Pd. M.Pd			Reaktualiasai Karakter Jujur Melalui Ujian Lisan Berbasis Online Pada Mahasiswa	11,000,000	Internal PT	PT atau Mandiri

						Unimus (Studi Kasus, Tantangan Dan Hambatan)			
74	2024	PDP	Bdn. Ariyani Lutfitasari, S.SiT, M.Keb			FAKTOR PENYEBAB HYPERBILIRUBIN PADA BAYI BARU LAHIR (STUDI DESKRIPTIF DI RUMAH SAKIT UMUM	11,000,000	Internal PT	PT atau Mandiri
	2024	PDP	Suharti, SE, MM			Analisis Pengaruh Good Corporate Governance, Struktur Modal, Profitabilitas Terhadap Nilai Perusahaan Dengan Kebijakan Dividen Sebagai Variabel Moderasi Pada Perusahan Syariah Yang Terdaftar Di Bursa Efek Indonesia (2019-2023)	11,000,000	Internal PT	PT atau Mandiri
75	2024	PDP	Dr. Suwardi, SE., MM			Bagaimana Pencapaian Pertumbuhan Laba Dengan Optimalisasi Sumber Daya Operaional Berbasis Efisiensi Total(Studi Pada Perusahaan Makanan Dan Minuman Di Indonesia Yang Tercatat Pada Bursa Efek Di Indonesiatahun 2016-2020)	11,000,000	Internal PT	PT atau Mandiri

76	2024	PDP	Testiana Deni Wijayatiningsih, M.Pd			Pengembangan Model Pembelajaran Hybrid Learning Based Team Project Untuk Meningkatkan Critical Literacy Mahasiswa Pendidikan Bahasa Inggris	11,000,000	Internal PT	PT atau Mandiri
77	2024	PDP	Bdn. Erna Kusumawati, S.ST.M.Kes			Evaluasi Penggunaan Partograf Pada Bidan Pasca Pelatihan Asuhan Persalinan Normal (APN) di Pusat Pelatihan Klinik Primer Kesehatan Reproduksi (P2KP-KR) Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
78	2024	PDP	Dian Candra Prasetyanti, M.Pd			Strategi Belajar English Idioms Mahasiswa Pendidikan Bahasa Inggris Unimus Menggunakan Lagu Dan Gambar	11,000,000	Internal PT	PT atau Mandiri
79	2024	PDP	Dr. Endang Tri Wahyuni Maharani, M.Pd			Recovery Minyak Jelantah Menggunakan Antioksidan Alami Kulit Buah Manggis Melalui Penurunan Bilangan Peroksida	11,000,000	Internal PT	PT atau Mandiri
80	2024	PDP	Budi Tri Santosa, SS, MA			Mengungkap Kematian John Berryman Melalui Karya Puisi : Kajian Semiotika Riffatere	11,000,000	Internal PT	PT atau Mandiri

81	2024	PDP	M. Al Haris, S.Si., M.Si.			Prediksi Jumlah Penumpang Pesawat Udara Dampak Pandemi Covid-19 Dengan Model Hybrid Arimax-Fuzzy Time Series	11,000,000	Internal PT	PT atau Mandiri
82	2024	PDP	Radiktyo Nindyo Sumarno, ST, MT			Perencanaan PLTS Rooftop Cafe Kampus Unimus	11,000,000	Internal PT	PT atau Mandiri
83	2024	PDP	Laily Muntasiroh, ST, MT			Perancangan Rangkaian Pengali Bilangan Biner Menggunakan Aplikasi Deeds Pada Mata Kuliah Praktikum Elektronika Digital	11,000,000	Internal PT	PT atau Mandiri
84	2024	PDP	Iqbal Hidayatsyah Noor, M.Pd			Fenomena Penggunaan Uang Elektronik Sebagai Pembayaran Zakat (Studi Deskriftif Di Lembaga Amil Zakat Muhammadiyah Jawa Tengah Tahun 2019-2021)	11,000,000	Internal PT	PT atau Mandiri
85	2024	PDP	Lia Mulyanti, S.SiT, M.Kes			Hubungan Sikap Ibu Dengan Kelengkapan Imunisasi Dasar Pada Bayi Usia 9-11 Bulan Di Desa Sumberrejo Demak	11,000,000	Internal PT	PT atau Mandiri
86	2024	PDP	Ir. Wikanastri Hersoelistyorini, MT			Peningkatan Kadar Pati Resisten Tipe Iii Tepung Beras Menir Termodifikasi	11,000,000	Internal PT	PT atau Mandiri

						Melalui Fermentasi Bakteri Asam Laktat Dan Pemanasan Gelombang Mikro			
87	2024	PDP	Dr. Agus Suyanto, STP. M.Si			Peningkatan Kadar Pati Resisten Tipe Iii Tepung Beras Menir Termodifikasi Melalui Fermentasi Bakteri Asam Laktat Dan Pemanasan Bertekanan-Pendinginan	11,000,000	Internal PT	PT atau Mandiri
88	2024	PI	Herlisa Anggraini, SKM, M.Si.Med	dr. Erma Lestari, Sp.PK	-	Perbedaan Kadar Hcg Pada Serum Wanita Hamil Suhu 4° C Dan Suhu Ruang (26°C) Menggunakan Metode Elisa	11,000,000	Internal PT	PT atau Mandiri
89	2024	PI	Dr. Fatmasari Sukesti, SE, M.Si	Nurcahyono, S.E., M.S.A.	Mamdukh Budiman, S.S., M.S.I	Determinan Sikap Lintas Generasi Dalam Memilih Produk Halal Di Indonesia	11,000,000	Internal PT	PT atau Mandiri
90	2024	PI	Dr. Hardiwinoto, SE, M.Si	Nur Khatik, SE, M.Si	Edy Purwanto, SE., MM	Analisis Modus Dan Mitigasi Korupsi Sumber Daya Alam Di Jawa Tengah	11,000,000	Internal PT	PT atau Mandiri
91	2024	PI	Dr. Ir. Rahayu Astuti, M.Kes	Wulandari Meikawati, SKM, M.Si	-	Pengembangan Proses Produksi Tepung Tempe Dalam Percepatan Penurunan Balita Stunting Dan Wasting	11,000,000	Internal PT	PT atau Mandiri

92	2024	PI	Dr. Dodi Mulyadi, S.Pd., M.Pd.	Prof. Dr. Djamaluddin Darwis, M.Pd	-	Pembelajaran Bahas Inggris Berbasis Basic Psychological Needs Untuk Peningkatan Listening Comprehension Dan Speaking Performance Mahasiswa	11,000,000	Internal PT	PT atau Mandiri
93	2024	PI	Venissa Dian Mawarsari, M.Pd	Abdul Aziz, M.Pd	-	Desain Aplikasi Digital "Geometrical Van Hile" : Optimalisasi Level Berfikir Geometris	11,000,000	Internal PT	PT atau Mandiri
94	2024	PI	Arief Hendra Saptadi, S.T., M.Eng.	Aris Kiswanto, ST, MT	-	Perancangan Sistem Akuisisi Data Berbasis Iot (Internet Of Things) Dengan Beberapa Pilihan Mode Tampilan Untuk Memvisualisasikan Hasil Pengukuran Di Waktu Nyata	11,000,000	Internal PT	PT atau Mandiri
95	2024	PI	Muh Amin, ST, MT	M. Edi Pujianto, S.T., M.T.	Muhammad Subri, ST, MT	Analisa Perbandingan Densitas Polyutethan Dalam Pembuatan Komposit Berpori Dengan Metode Replica Template	11,000,000	Internal PT	PT atau Mandiri
96	2024	PI	Tulus Ariyadi, S.KM, M.Si.			Aktivitas Antibakteri Variasi Ekstrak Kulit Dan Biji Rambutan (Nephelium Lappaceum L.) Terhadap Bakteri Multidrug Resistant	11,000,000	Internal PT	PT atau Mandiri

						Penyebab Infeksi Saluran Kemih			
97	2024	PI	dr. Merry Tiyas Anggraini, M.Kes			Faktor Biopsikososial Yang Mempengaruhi Kualitas Hidup Pasien Hemodialisis	11,000,000	Internal PT	PT atau Mandiri
98	2024	PI	Dr. Mohammad Fatkhul Mubin, M.Kep, Sp.Jiwa			Pengalaman Pasien Pasca Pasung Dengan Gangguan Jiwa Di Kabupaten Magelang	11,000,000	Internal PT	PT atau Mandiri
TOTAL							Rp. 1.805.000.000 Convert to USD 100450,78		

No.	Tahun	Skema	Nama Ketua	Anggota 1	Anggota 2	Judul	Dana	Sumber Dana	Jenis Sumber Pembiayaan
1	2024	PTKN	Stalis Norma Ethica	Ragil Saptaningtyas		Prototipe Mikrokapsul Protease Fibrinolitik dari Bakteri Bacillus tequilensis HSFI-5 Isolat Teripang Pasir Laut untuk Pengembangan Agen Antitrombosis	215,965,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

2	2024	PTUPT	Budi Santosa	Sufiati Bintanah	Tulus Ariyadi	Es Krim Kombinasi Ekstrak Daun Padi IR Bagendit Dengan Air Kelapa Muda Untuk Pencegahan Kerusakan Fungsi Ginjal Akibat Pajanan Merkuri	198,061,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
3	2024	PTUPT	Purnomo	Dwi Windu Kinanti Arti	Ana Hidayati Mukaromah	Implementasi Atmospheric Pressure Plasma Jet pada Proses Perbaikan Material Gigi Tiruan Berbasis Polymethyl methacrylate	300,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
4	2024	PFR	Muh Amin	Muhammad Subri		Pengembangan Struktur Biomaterial Berpori untuk Aplikasi Ortopedi	123,600,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
5	2024	PFR	Muhammad Yusuf	Nurul Puspita		Penguatan Daya Saing Produk Olahan Perikanan Jawa Tengah untuk Memenuhi Pasar Global	87,100,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
6	2024	PFR	Nurhidajah	Diode Yonata	Sufiati Bintanah	Karakteristik dan Potensi Antidiabetik Tepung Beras Hitam Teretrogradasi pada Tikus Wistar Diabetes Melitus Induksi STZ-NA	100,800,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
7	2024	PFR	Nurrahman	Rr Annisa Ayuningtyas		Karakterisasi dan Potensi Sup Labu Kuning Instan dalam Memperbaiki Profil Lipid dan Sistem Immun Tikus secara In Vivo	270,600,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

8	2024	PFR	Siti Aminah	Rohadi (USM)	Hersanti Sulistyaningrum	Bioavailabilitas Protein Susu Kecambah Kedelai Terenkapsulasi dengan Fortifikasi Mineral untuk Pencegahan Osteoporosis	168,200,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
9	2024	PFR	Yunan Kholifatuddin Sya'di	Agus Suyanto		Optimasi Biosintesis, Modifikasi In Situ dan Karakterisasi Selulosa Bakterial Dari Air Kelapa sebagai bahan plastik biodegradable	123,200,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
10	2024	PTM	Sri Darmawati			Daya Hambat Kombinasi Ekstrak Jinten Hitam (Nigella sativa) Amoxillin Terhadap Pertumbuhan Bakteri Isolat Pus Luka Diabetes	26,000,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
11	2024	PTM	Sri Darmawati			Ekspresi TNF-α, Interleukin-6, Profil Darah Dan Re-Epitelisasi Kulit Mencit (Mus musculus) Terinfeksi Escherchia coli Isolat Ulkus Diabetik dengan Perlakuan Plasma Medis	28,700,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
12	2024	PTM	Stalis Norma Ethica			Karakterisasi Molekuler Gen Target Kloning Pengkode Protease Trombolitik pada Bakteri Laut Bacillus sp. HSFI-5 dan HSFI-9	29,200,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						berbasis Whole Genome Sequencing			
13	2024	PPVUPT	M. Evy Prastiyanto	Sri Darmawati	Ana Hidayati Mukaromah	Natural Product dari Biji Tujuh Kultivar Mangga (Mangifera indica L) Asli Indonesia untuk Pembuatan Plester dalam Upaya Penanganan Infeksi Luka yang disebabkan Multidrug Resistance (MDR) Bacteria	137,520,000	DAPTV	Lembaga Dalam Negeri (di luar PT)
14	2024	PFR-I	Rr Annisa Ayuningtyas, M.Gz			Jelita: Aplikasi Edukasi Komprehensif Berbasis Appsheet Sebagai Upaya Reduksi Anemia Pada Remaja Putri Di Kota Semarang	12,000,000	RISET MU	Lembaga Dalam Negeri (di luar PT)
15	2024	PFR-II	Ahmad Ilham, S.Kom.,M.Kom	Asdani Kindarto		Pengembangan Model Artificial Intelligence Berbasis Pohon Keputusan Dalam Mendukung Pemantauan Risiko Kesehatan Janin Ibu Hamil	12,000,000	RISET MU	Lembaga Dalam Negeri (di luar PT)
16	2024	PFR-II	Martyana Prihaswati, M.Pd	Eko Yuliyanto		Analisis Kebutuhan: Pengembangan Model Pembelajaran Mathematics Low Carbon Project Terintegrasi Kurikulum Merdeka	12,000,000	RISET MU	Lembaga Dalam Negeri (di luar PT)
17	2024	Penelitian	Dr. Sri Rejeki,	Anna Kurnia		Kadar Kortisol dan Hemodinamika (TD, RR, Suhu Badan,	14,000,000	RISET MU	Lembaga Dalam

		Terapan	M.Kep., Sp.Mat			PACO2) Sebagai Deteksi Tingkat Kecemasan Berbasis Pengembangan Alat Counter-Pressure Regiosakralis Elektrik Therapi Nyeri Persalinan			Negeri (di luar PT)
18	2024	PFR	Ali Rosidi			Karakterisasi dan Potensi Es Krim Tersuplementasi Mikrokapsul Ekstrak Temulawak dalam Pencegahan Kelelahan Otot dan Peningkatan Respons Imun Setelah Latihan Berat	135,360,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
19	2024	PFR	Dodi Mulyadi			Formulasi Konsep Content and Language Integrated Learning (CLIL) berbasis Technology-mediated TBLT dalam pembelajaran Bahasa Inggris untuk Keperawatan	116,580,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
20	2024	PFR	Maya Dian Rakhmawatie			Optimasi sediaan topikal nanopartikel zinc oksida antimikroba dari ekstrak Bacillus sp. HSFI-9 berdasarkan kriteria parameter formulasi dan efektivitas	120,840,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
21	2024	PFR	Muhammad Yusuf			Penguatan Daya Saing Produk Olahan Perikanan Jawa Tengah untuk	117,060,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						Memenuhi Pasar Global			
22	2024	PFR	Nurhidajah			Karakteristik dan Potensi Antidiabetik Tepung Beras Hitam Retrogradasi pada Tikus Wistar Diabetes Melitus Induksi STZ-NA	128,980,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
23	2024	PFR	Purnomo			Karakterisasi Fraktur Mode Campuran I+II pada Komposit Antibakteri Bahan Gigi Tiruan dari PMMA yang Diperkuat Zeolit	120,280,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
24	2024	PFR	Risyandi Anwar			ISOLASI SENYAWA AKTIF RIMPANG Kaempferia galanga .L SEBAGAI PENCEGAH KARIES GIGI ANAK MELALUI PENGHAMBATAN BIOFILM STREPTOCOCCUS MUTANS DAN CANDIDA ALBICANS	121,700,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
25	2024	PFR	Satriya Pranata			Efektifitas perawatan personal terhadap tingkat manajemen diri pasien diabetes sebagai upaya untuk menurunkan resiko komplikasi penyakit jantung dan ginjal	108,910,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
26	2024	PFR	Siti Aminah			Bioavailabilitas Protein Susu Kecambah Kedelai Terenkapsulasi dengan Fortifikasi	134,370,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

						Mineral untuk Pencegahan Osteoporosis			
27	2024	PFR	Yanuarita Tursinawati			Potensi Kandungan Melatonin Eksogen Dalam Ekstrak Kacang Lokal Indonesia Sebagai Agen Antidiabetes Dan Kajian Nutrigenomiknya	114,760,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
28	2024	PFR	Nurrahman			Karakteristik dan Potensi Sup Labu Kuning Instan dalam Memperbaiki Profil Lipid dan Sistem Immun Tikus Secara In Vivo	123,310,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
29	2024	PPS-PTM	Sri Darmawati			Karakterisasi Hipervirulensi dan Gambaran Klinis Pasien Tuberkulosis Co-Infeksi Klebsiella pneumoniae dengan Whole Genome Squencing untuk Pengembangan Rapid Test Diagnostic	33,900,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
30	2024	PSS-PTM	Amin Samiasih			TERAPI KOGNITIF, MIND FULLNESS, RELAKSASI DAN DUKUNGAN KELUARGA (COMIND RELAK SUPPORT) MENURUNKAN KECEMASAN PASIEN PRE OPERASI PARAMETER HEMODINAMIK DAN HEMATOKRIT]	31,670,000	DRTPM	Lembaga Dalam Negeri (di luar PT)

31	2024	PSS-PTM	Amin Samiasih			EDUBAYO(EDUKASI,BATUK EFEKTIF DAN YOGA) MENINGKATKAN KUALITAS HIDUP PAISEN TB PARU (PARAMETER FREKWENSI NAFAS DAN SATURASI OKSIGEN.	31,590,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
32	2024	PSS-PTM	Didik Sumanto			Kombinasi ekstrak cengkeh dan kayu manis pada tikus terinduksi diet tinggi lemak sebagai pengobatan alternatif dalam menurunkan kadar gula darah	31,500,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
33	2024	PSS-PTM	Maya Dian Rakhmawatie			Profil Interferon-ɣ, Interleukin-10, Hematologi dan Mikroskopis Pasien Tuberkulosis dengan Pengobatan Kombinasi Anti Tuberkulosis dan Ekstrak Bunga Telang (Clitoria ternatea)	28,960,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
34	2024	PSS-PTM	Mudyawati			Analisis dan Identifikasi Profil Metabolit Mikrobiota Usus Ibu Hamil Trimester 3 dan Bayi secara Metabolomik: Eksplorasi Biomarker Diabetes Mellitus	31,940,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
35	2024	PSS-PTM	Mudyawati			Clustering dan Mapping fungsional genom mikrobiota usus secara fisiologis	35,000,000	DRTPM	Lembaga Dalam

						maupun patologis sampel feses Ibu hamil Trimester 3 dan Bayi dilahirkan			Negeri (di luar PT)
36	2024	PSS-PTM	Sri Rejeki			Kenyamanan Fisik dan Psikospiritual Perempuan Dismenorea Melalui Therapi Kombinasi Counter Pressure Regiosakralis dan Aroma Lavender	26,010,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
37	2024	PSS-PTM	Stalis Norma Ethica			Karakterisasi Molekuler dan Mikroenkapsulasi Protease Metabacillus sp.CS-2 untuk Debridemen Luka	29,270,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
38	2024	PT	Sri Darmawati			Prototipe Point of Care Testing (POCT) Untuk Deteksi Demam Tifoid Berbasis Outer Membran Porin C (OmpC)Salmonella typhi Isolat Semarang	232,100,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
39	2024	PT	Stalis Norma Ethica			Prototipe Mikrokapsul Protease Fibrinolitik dari Bakteri Bacillus tequilensis HSFI-5 Isolat Teripang Pasir Laut untuk Pengembangan Agen Antitrombosis	392,200,000	DRTPM	Lembaga Dalam Negeri (di luar PT)
TOTAL							Rp. 2.246.290.000		

	Convert to USD 125009,18		

Funding internal 2025

No.	Years	Scame	The name of leader	Member	Member	Title	Funding	Funding resources	Kind of funding resources
1	2025	PI	Gela Setya Ayu Putri	Andri Sukeksi		Potensi Ekstrak Etanol Lidah Buaya Sebagai Induktor Alternatif Pada Pemeriksaan Agregasi Trombosit Metode Velaskar	11,000,000	Internal PT	PT atau Mandiri
2	2025	PI	Edy Purwanto	Ari Dwi Astono		Pengembangan Tata Kelola Manajemen Lembaga Keuangan	11,000,000	Internal PT	PT atau Mandiri

						Mikro Agribisnis (LKMA) Kabupaten Kendal			
3	2025	PI	Ali Rosidi	Firdananda Fikri Jauharany	Annisa Ayuningtyas	Efikasi Ekstrak Temulawak (Curcuma Xanthorrihiza Roxb) terhadap Jumlah Eritrosit Tikus (Rattus Norvegicus) dengan Aktivitas Fisik Maksimal	11,000,000	Internal PT	PT atau Mandiri
4	2025	PI	Tiani Wahyu Utami	Endang Tri Wahyuni Maharani		Pemodelan Jumlah Penderita Dbd Di Jawa Tengah Menggunakan Pendekatan Regresi Nonparametrik Spline Truncated-Deret Fourier	11,000,000	Internal PT	PT atau Mandiri
5	2025	PI	Su`udi Al Mukarom	Wawarisa Alnu Fistcar		Study Analisis Daya Dukung Tiang Bor (Bore Pile) Pada Struktur Gedung Tingkat Tinggi Kampus Universitas Muhammadiyah Semarang	11,000,000	Internal PT	PT atau Mandiri
6	2025	PI	Wahyu Imam Santoso	Haerudin		Analisis Fluktuasi dan Stabilitas Harga Beras di Indonesia Selama Masa Pandemi Covid-19	11,000,000	Internal PT	PT atau Mandiri
7	2025	PI	Kania Kinasih	Nurrahmi Kartikawati		Aspek Arsitektural Pada Kolam Kocehan Tempat Wudhu Masjid	11,000,000	Internal PT	PT atau Mandiri
8	2025	PI	Iswahyudi Joko Suprayitno	Abdul Aziz		Kualitas Akademik Mahasiswa Unimus Dalam Penerimaan Mahasiswa Baru Berdasarkan Program Reguler dan Bantuan Pendidikan	11,000,000	Internal PT	PT atau Mandiri
9	2025	PI	Dr. Amin Samiasih, S.Kp., M.Si.Med			Terapi Kognitif, Mind Fullness, Relaksasi Dan Dukungan Keluarga	11,000,000	Internal PT	PT atau Mandiri

						(Comind Relak Support) Menurunkan Kecemasan Pasien Pre Operasi (Parameter Hemodinamik dan Hematokrit)			
10	2025	PDP	Kanti Ratna Ningrum	dr. Lourensya Berta Joharlina		Analisis Faktor Risiko Dermatitis Pada SMP VIP Al-Huda Selama Pandemi Covid-19	11,000,000	Internal PT	PT atau Mandiri
11	2025	PI	Dr. Mohammad Fatkhul Mubin, S.Kp.M.Kep.Sp.Kep.J			Pengalaman Pasien Pasca Rehabilitasi Medik di Masyarakat	11,000,000	Internal PT	PT atau Mandiri
12	2025	PI	Ns. Mariyam, M.Kep.Sp.Kep.An			Strategi Manajemen Gejala Diare Balita di Rumah	11,000,000	Internal PT	PT atau Mandiri
13	2025	PI	Ns. Nikmatul Khayati., M.Kep	Internal PT	PT atau Mandiri	Gambaran Pengetahuan Ibu tentang Praktik Menyusui Bayi Setelah Perawatan NICU di RSD KRMT Wongsonegoro Semarang	11,000,000	Internal PT	PT atau Mandiri
14	2025	PI	Ns. Tri Nurhidayati, S.Kep., M.Med.Ed			Gambaran Efikasi Diri Lansia Penderita Depresi Di Rumah Pelayanan Sosial Lanjut Usia Pucang Gading Semarang	11,000,000	Internal PT	PT atau Mandiri
15	2025	PI	Ns. Yanuan Ben Olina, MSN., Sp.Kep.K			Efektifitas Intervensi Latihan Aktivitas Fisik Balance And Strange Pada Lansia Dengan Masalah Osteoarthritis Di Kota Depok	11,000,000	Internal PT	PT atau Mandiri
16	2025	PI	Yuliana Noor SU.,M.Sc			Pengaruh Ekstrak Etanol Kawista Terhadap Hasil Pemeriksaan Clotting Time	11,000,000	Internal PT	PT atau Mandiri

						Metode Lee And White			
17	2025	PI	Ria Purnawian S.,M.Gz			Pengaruh Ekstrak Krokot Terhadap Kadar Timbal dan Profil Hematologi Darah Tikus Yang Terpapar Asap Sepeda Motor	11,000,000	Internal PT	PT atau Mandiri
18	2025	PI	Addina Rizky Fitriyanti			"Isolasi Dan Analisis Biodiversitas Bakteri Penghasil Enzim Lipase Serta Analisis Kadar Lemak Pada Tiram Pasifik (Crassostrea Gigas	11,000,000	Internal PT	PT atau Mandiri
19	2025	PI	Rahayu Astuti	Wulandari Meikawati		Penilaian Antropometri, Status Gizi, Faktor Sosial Dan Ekologi Pada Siswa Madrasah Ibtidaiyah Kota Semarang	11,000,000	Internal PT	PT atau Mandiri
20	2025	PI	Heri Dwi Santoso S.S., M.Hum			Analisis Dekonstruksi Kelompok Subordinat Dalam Film The Call (2013)	11,000,000	Internal PT	PT atau Mandiri
21	2025	PI	Venissa Dian Mawarsari S.Pd, M.Pd			Formulasi Malam Carving Sebagai Media Bahan Ajar Praktik Bioamterial	11,000,000	Internal PT	PT atau Mandiri
22			Luthfia Dewi, M.Gz. Ph.D.			Effect Of Protein Supplements On Stem Cells In Exercising Muscles: A Randomized Controlled Trial	30.000.000	Internal PT	PT atau Mandiri
23			Dr. dr. Titin Setyowati, Sp.An			Effectiveness Of Swallow's Nest Solution With Moringa Seed Powder Bleach On Blood Glucose And Cholesterol Levels In Hypercholesterole	30.000.000	Internal PT	PT atau Mandiri

						mia Hyperglycemia Rats			
24			Muhammad Yusuf, SSt.Pi. M.Si. Ph.D			Extraction And Encapsulation Of Flavoring Compounds From Sipou (siphonosoma Australe-australe)	**30.000.000**	**Internal PT**	**PT atau Mandiri**
25			Ir. Achmad Solichan, S.T., M.Kom.			Iot-based Nutrient Control And Monitoring System For Vertical Hydroponics	**30.000.000**	**Internal PT**	**PT atau Mandiri**
26			Dr. Ns. Chanif, S.Kep. MNS			The Effect Of Triage Training Base On Knowledge And Practice Triage Level Interpretation On Nursing Students Of Unimus And Isc Timor Leste	**30.000.000**	**Internal PT**	**PT atau Mandiri**
27			Dr. Nur Muttaqien Zuhri, S.Pi. M.Si			The Sustainability Of Agribusiness Msmes In Central Java: The Role Of Business Performance And Operational Resilience	**30.000.000**	**Internal PT**	**PT atau Mandiri**
28			Safuan, S.Kom, M.Kom.			Automating Content Validity Assessment Using Transformer-based Nlp Models In Educational Quality Assurance	**30.000.000**	**Internal PT**	**PT atau Mandiri**
29			drg. Hayyu Failasufa, M.KM			Development And Usability Evaluation Of The Sikader Gigi Digital Application For Dental Health Surveillance: A User-centered Approach	**30.000.000**	**Internal PT**	**PT atau Mandiri**
30			Dr. Edy Winarno, S.T., M.Eng.			Development Of Explainable Artificial Intelligence (xai)	**30.000.000**	**Internal PT**	**PT atau Mandiri**

						Algorithms For Predictive Health Alerts Based On Computer Vision And Natural Language Processing			
31			Dr. Andwiani Sinarasri, SE, M.Si			Digital Innovation Model Based On Intellectual Capital Integration And Management Control System To Improve Sme Performance	**30.000.000**	**Internal PT**	**PT atau Mandiri**
32			Prof. Dr. Ir. Purnomo, S.T., M.Eng.			Experimental Study Of Initial Crack Angle Effect On Impact Fracture Toughness Of Polymethyl Methacrylate-zeolite Composites	**30.000.000**	**Internal PT**	**PT atau Mandiri**
33			Dra. Sri Sinto Dewi, M.Si.Med			Purification And Molecular Identification Of Fibrinolytic Protease Producing Bacillus SF-4 As A Fibrinolytic, Thrombolytic And Anticoagulant Agent Candidates (3rd Year)	**30.000.000**	**Internal PT**	**PT atau Mandiri**
34			Dr. Yunan Kholifatuddin Syadi, S.T.P., M.Sc.			Application Of Edible Coating From Gelatin, Chitosan And Bacterial Cellulose Formulation To Increase The Shelf Life Of Pempek	**30.000.000**	**Internal PT**	**PT atau Mandiri**
35			Dr. Muhammad Munsarif, S.Kom, M.Kom			An Improved Decision Tree Model Through Hyperparameter Optimization Using Hybrid Dynamic Ant Colony And Grey Wolf Optimization For	**30.000.000**	**Internal PT**	**PT atau Mandiri**

						Diabetes Classification			
36			Arya Iswara, S.Si, M.Si.Med., Ph.D			The Wound Healing Activity Of Trichoderma Koningiopsis Endophytic Fungi And Inactivation Of Multidrug Resistant Staphylococcus Aureus (mrsa) In An Animal Model	**30.000.000**	**Internal PT**	**PT atau Mandiri**
37			Dr. Ana Hidayati Mukaromah, M.Si			Comparison Of The Effectiveness Of Co3o4/ Zsm-5; Tio2 Zsm-5; Zno Zsm-5 In Reducing Remazol Yellow And Indigozol Blue Levels And Characterization	**30.000.000**	**Internal PT**	**PT atau Mandiri**
38			Dr. Agus Suyanto, STP. M.Si			Investigation Of Seaweed-derived Biochemical Compounds For Innovative Type 2 Diabetes Management.	**30.000.000**	**Internal PT**	**PT atau Mandiri**
39			Dr. Ns. Machmudah, M.Kep. Sp.Kep. Mat			Psychosocial Factors Influencing Breastfeeding Self-efficacy: A Comparative Study Among Primiparous Women In Indonesia And Malaysia	**30.000.000**	**Internal PT**	**PT atau Mandiri**
40			Aditya Rahman Ernanto, S.Si, M.Sc			Antibacterial Activity Of Myrmecodia Pendens Ant Nest-plant Against Mdr Bacteria From Clinical Samples	**30.000.000**	**Internal PT**	**PT atau Mandiri**
41			Dr. Ali Imron, S.Pd.I, M.Pd.I			Islamic Education And Religious Moderation: A Comparative Study Of Interfaith Tolerance In Indonesia And Timor-leste	**30.000.000**	**Internal PT**	**PT atau Mandiri**

42			Aprilia Indra Kartika, S.Pd. M.Biotech			Identification Of Antibiotic-resistant Pathogenic Bacteria From Chicken Eggs Based On 16S RRNA Genes	**30.000.000**	**Internal PT**	**PT atau Mandiri**
43			Dr. Sabhan Kanata, ST, M.Eng			Green Energy-based Urban In Indonesia And Malaysia: Technology Options, Modelling Methods, Barriers, And Recommendation - (second Year)	**30.000.000**	**Internal PT**	**PT atau Mandiri**
44			Dr. drg. Risyandi Anwar, Sp.KGA			Optimization Of Toothpaste Formula Containing Active Ingredient 24-methylenecycloartanol As A Preventive Measure For Early Caries In Children's Teeth Through Biofilm Inhibition	**30.000.000**	**Internal PT**	**PT atau Mandiri**
45			Dr. drg. Nur Khamilatusy Sholekhah, M.M.			Evaluate The Efficacy Of Preprocedural Mouthrinses And Vacuum Aerosol For Infection Control Practices During Ultrasonic Scaling Procedure	**30.000.000**	**Internal PT**	**PT atau Mandiri**
46			Annisa Nurul Hikmah, S.Tr.AK., M.Biomed			Demographic Analysis Of Age And Sex On The Prevalence Of Klebsiella Infection In Different Patient Age Groups	**30.000.000**	**Internal PT**	**PT atau Mandiri**
47			Moh Toni Prasetyo, S.T. M.Eng., IPM			Effectiveness Of High Silica Rice Husk Ash Filler Reinforced By Coupling Agent And Compatibilizer For Epoxy Silane	**30.000.000**	**Internal PT**	**PT atau Mandiri**

						Resin Electrical Insulator Material On Electrical And Mechanical Strength			
48			Prof. Dr. Budi Santosa, SKM. M.Si.Med			The Rising Burden Of Antimicrobial Resistance In Elderly Populations: A Retrospective Study	**30.000.000**	**Internal PT**	**PT atau Mandiri**
49			Tulus Ariyadi, S.KM, M.Si.			A Cross-sectional Investigation On The Antibiotic Resistance Of Pseudomonas Aeruginosa Isolated From Clinical Samples In Semarang, Indonesia	**30.000.000**	**Internal PT**	**PT atau Mandiri**
50			Andri Sukeksi, S.KM, M.Si.			Emerging Multidrug-resistant Bacteria In Indonesian Neonatal Patients: Prevalence And Antimicrobial Resistance Profiles From Clinical Samples, A Cross-sectional Study	**30.000.000**	**Internal PT**	**PT atau Mandiri**
51			Dr. Dewi Puspitaningrum, S.Si.T, M.Kes			Lighting The Future Of Women's Health: Glow Program Implementation At SMA 1 Muhammadiyah Semarang	**30.000.000**	**Internal PT**	**PT atau Mandiri**
52			Muhammad Evy Prastiyanto, S.Si, M.Sc			Prevalence, Antimicrobial Susceptibility Profile, And Multidrug Resistance Of Methicillin-resistant Staphylococcus Aureus (mdr-mrsa) Isolated From Clinical Samples		**Internal PT**	**PT atau Mandiri**

						Of Indonesian Patients			
53			Dr. Firdaus, S.M., M.M			The Power Of Viral Marketing: How Fomo And Social Proof Drive Purchase Decisions In The Digital Age.	**30.000.000**	**Internal PT**	**PT atau Mandiri**
54			drg. Dwi Windu Kinanti Arti, MMR			The Effect Of Saddle-seat Ergonomic Chairs On The Working Posture Of Young Dentists (second Year)	**30.000.000**	**Internal PT**	**PT atau Mandiri**
55			Prof. Dr. Sri Darmawati, M.Si			Analysis Of Meca Gene Sequence Variations Of Methicillin Resistant Staphylococcus Aureus Of Diabetic Ulcer Isolates	**30.000.000**	**Internal PT**	**PT atau Mandiri**
56			Dr. Sri Rejeki, M.Kep. Sp.Mat			Coping Mechanism In Overcome Pain In Mothers During Labor (desciptive Study Of Indonesian And Thai)	**30.000.000**	**Internal PT**	**PT atau Mandiri**
57			dr. Novita Sari Dewi, Sp.KFR			Smart Wheelchair Development In Supporting Medical Rehabilitation And Improving The Quality Of Life Of Stroke Patients In Indonesia - Malaysia	**30.000.000**	**Internal PT**	**PT atau Mandiri**
TOTAL							Rp. 1.570.500.000 **Convert to USD 87400,52**		

Funding external 2025

No	TAHUN	KETUA	PRODI	JUDUL	SKEMA	ANGGOTA1	ANGGOTA2	DANA
1	2025	Dr. R.Ngt. Amin Samiasih, M.Si.Med	S2 Keperawatan	Prototipe Nanopartikel dari Kulit Pisang Kepok Kuning Sebagai Anti Inflamasi DM Hiperlipidemia Aman Untuk Lambung Uji In Vitro	Penelitian Terapan - Luaran Prototipe	Dr Yunan Khalifatuddin Sa'adi STP MSc	Dr. Dyah Nirmala Arum Janie, SE, M.Si., Ak	430.990.000,00
2	2025	Dr. Eny Winaryati, M.Pd	Profesi Pendidikan Guru	E-MESp 4 C's Mobile: Integrasi Evaluasi-Supervisi Berbasis 4C's untuk Penguatan Kebijakan Pendidikan Tingkat Provinsi	Penelitian Terapan - Luaran Prototipe	Dr. Muhammad Munsarif S.Kom, M.Kom	Dr. Iwan Junaedi, M.Si	373.770.000,00
3	2025	Dr. Maya Dian Rakhmawatie, M.Sc., Apt.	S1 Kedokteran	Sediaan topikal antibakteri berbahan aktif green synthesis metabolit sekunder Bacillus sp. HSFI-9 untuk ulkus diabetik akibat Staphylococcus aureus	Penelitian Terapan - Luaran Prototipe	Dr. Stalis Norma Ethica, M.Si	Dr. Ana Hidayati Mukaromah, M.Si	177.970.000,00
4	2025	Dr. Dodi Mulyadi, M.Pd	S1 Pendidikan Bahasa Inggris	Model Pembelajaran ESP Berbasis Tugas dengan Pemanfaatan Teknologi yang Diintegrasikan dalam Content and Language Integrated Learning	Penelitian Terapan - Luaran Model	Dr. Rismiyanto, S.S, M.Pd	Ns. Dewi Setyawati, S. Kep., MNS	120.350.000,00
5	2025	Dr. Ali Rosidi, M.Si	S2 Ilmu Gizi	Karakterisasi dan Potensi Es Krim Tersuplementasi Mikrokapsul Ekstrak Temulawak dalam Pencegahan Kelelahan Otot dan Peningkatan Respons Imun Setelah Latihan Berat	Penelitian Fundamental - Reguler	Firdananda Fikri Jauharany, S.Gz., M.Gz	Dr. Edy Soesanto, M.Kep.	125.950.000,00

6	2025	Dr. Diana Hardiyanti, M.Hum	S1 Sastra Inggris	Rancangan Audiobook Literasi Anak Dwibahasa yang Ramah Disleksia	Penelitian Fundamental - Reguler	Faqih Sulthan, M.A	Dr. Yopi Thahara, M. Hum	106.490.000,00
7	2025	Dr. Didik Sumanto, M.Kes (Epid)	S2 Kesehatan Masyarakat	Deteksi MSP-1, HRP-2 dan p-LDH Human Plasmodium Pada Hewan Potensial Penular Malaria Ternak Domestik	Penelitian Fundamental - Reguler	Dr. Dolfinus Yufu Bouway, S.KM, M.Kes (Epid)	Dr. Ulfa Nurullita, S.KM, M.Kes	137.460.000,00
8	2025	Heri Dwi Santoso, S.S, M.Hum	S1 Sastra Inggris	Konseptualisasi Transformasi Sastra dalam Ekonomi Kreatif Digital: Literasi, Modal Budaya, dan Estetika dalam Industri Konten	Penelitian Fundamental - Reguler	Yulia Mutmainnah, S.S., M.Hum.	Yulistiyanti, S.S., M.Hum.	102.690.000,00
9	2025	Kartika Nugraheni, S.Gz, M.Gizi., Ph.D	S2 Ilmu Gizi	Polifenol Kulit Buah Naga Merah sebagai Regulator Obesitas, Inflamasi, dan Hormon Kenyang melalui Ekspresi Gen Lipogenik	Penelitian Fundamental - Reguler	Zahra Maharani Latrobdiba, S.Gz, M.Gz	Fika Shafiana Nadia, S.Gz, M.Gz	122.200.000,00
10	2025	Dr. Mohammad Fatkhul Mubin, M.Kep., Sp.Kep.J	S1 Ilmu Keperawatan	Efektifitas Model Kemandirian Sosial-Ekonomi bagi Pasien Rehabilitasi Mental: Mandiri Berbasis Komunitas untuk Inklusi dan Kesejahteraan	Penelitian Fundamental - Reguler	Dr. Siti Aisah, S.Kp.M.Kep, Sp.Komunitas	Ns. Dewi Setyawati, MN	107.730.000,00
11	2025	Mudyawati, M.Si., Ph.D	S2 Ilmu Laboratorium Klinis	Konstruksi dan Pengembangan Model Metabolik Berskala Genom Mikrobiota Usus yang Diisolasi dari Feses Ibu Hamil: Eksplorasi Kandidat Biomarker Penyakit degeneratif	Penelitian Fundamental - Reguler	Andi Fatmawati, S.Si., M.Kes.	Sri Hapsari Suhartono Putri, S.Gz., M. Gizi	120.340.000,00
12	2025	Muhammad Yusuf, M.Si., Ph.D	S1 Teknologi Pangan	Pemanfaatan Cacing Sipou sebagai Sumber Daya Perikanan Laut Indonesia menjadi Penguat Rasa Umami dengan Teknik Mikroenkapsulasi	Penelitian Fundamental - Reguler	Aditano Yani Retawimbi, S.Kel., M.Si	Nurul Puspita, M.P.	126.570.000,00

13	2025	Dr. Nuhidajah, M.Si	S1 Teknologi Pangan	Karakteristik dan Potensi Antidiabetik Tepung Beras Hitam Retrogradasi pada Tikus Wistar Diabetes Melitus Induksi STZ-NA	Penelitian Fundamental - Reguler	RR. Annisa Ayuningtyas, M.Gz	Ir. Wikanastri H, M.T.	107.590.000,00
14	2025	Prof. Dr. Nurrahman, M.Si	S1 Teknologi Pangan	]Karakterisasi dan Potensi Hipoglikemik Sup Labu Kuning Instan yang Ditambah Biji Labu Kuning pada Tikus Diabetes Melitus Induksi STZ-Na	Penelitian Fundamental - Reguler	Dr. Ir. Rahayu Astuti, M.Kes.	Dr. Agus Suyanto, STP., M.Si.	115.550.000,00
15	2025	Dr. Ir. Rahayu Astuti, M.Kes	S2 Kesehatan Masyarakat	Potensi Tepung Tempe Fortifikasi Sebagai Bahan Baku Cookies Anti Anemia Gizi pada Tikus Sprague Dawley secara in Vivo	Penelitian Fundamental - Reguler	Wulandari Meikawati, SKM, MSi	Ria Purnawian Sulistiani, S.Gz, M.Gz	124.310.000,00
16	2025	Rima Dias Ramadhani, M.Kom	S1 Informatika	Model Genetika Baru untuk Optimisasi Centroid pada Klastering dan Aplikasinya dalam Menangani Masalah Big Data	Penelitian Fundamental - Reguler	Dannu Purwanto, S.T., M.Kom.	Asdani Kindarto, S.T., M.Eng., Ph.D.	119.190.000,00
17	2025	Dr. drg. Risyandi Anwar, Sp.KGA	Profesi Dokter Gigi	Optimasi formula pasta gigi berbahan aktif Etil Para Metoksinamat (EPMS) sebagai pencegah karies dini gigi anak melalui penghambatan biofilm	Penelitian Fundamental - Reguler	drg Steffi Triany Arnov SpPerio	drg Ani Megawati SpPM	71.250.000,00
18	2025	Dr. Sabhan Kanata, M.Eng	S1 Rekayasa Elektro	Remote Electricity Berbasis Permodelan Energi Baru Terbarukan di Pulau Karimunjawa Jawa Tengah untuk Mendukung Dekarbonisasi di Sektor Ketenagalistrikan	Penelitian Fundamental - Reguler	Su'udi Al Mukoram	Muhammad Subri	122.010.000,00
19	2025	Ns. Satriya Pranata, M.Kep., Ph.D	S1 Ilmu Keperawatan	Efektifitas intervensi perawatan personal berdasarkan preferensi pasien diabetes untuk meningkatkan	Penelitian Fundamental - Reguler	Yunie Armiyati, M.Kep., Sp.Kep. MB	Sarinti, M.Kep	93.060.000,00

				manajemen diri dan menurunkan resiko komplikasi jantung dan ginjal				
20	2025	Dr. Sayono, M.Kes (Epid)	S2 Kesehatan Masyarakat	Isolasi Virus Dengue dan Bakteri Wolbachia pada Nyamuk Aedes sebagai Marker Deteksi Dini dan Dayahambat Penularan DBD di daerah endemis	Penelitian Fundamental - Reguler	Dr. rer. nat. Anto Budiharjo, S.Si, M.Biotech	Irfanul Chakim, SKM, Ph.D, Sc.	120.000.000,00
21	2025	Dr. Siti Aminah, M.Si	S1 Teknologi Pangan	Karakterisasi dan Evaluasi Potensi Antiosteoporotik Minuman Instan Susu Kecambah Kedelai yang Diperkaya Antioksidan Secang dengan Metode Foam Mat Drying	Penelitian Fundamental - Reguler	Hersanti Sulistyaningrum, S.Gz, M.Gz	Wulandari Meikawati, S.KM., M.Si	123.060.000,00
22	2025	Dr. R.Ngt. Amin Samiasih, M.Si.Med	S2 Keperawatan	Edukasi dan SEFT (EDUSEFT) Meningkatkan Kualitas Hidup Pasien Hemodialisis (Petanda Hemodinamik dan Kadar Kreatinin)	Penelitian Tesis Magister		Herman SKep.Ns	26.330.000,00
23	2025	Dr. R.Ngt. Amin Samiasih, M.Si.Med	S2 Keperawatan	Manajemen Stres, Edukasi dan Olah Raga (MAS EDO) Meningkatkan Kualitas Hidup Pasien Pasca Stroke (Petanda Hemodinamik dan Trigliseride)	Penelitian Tesis Magister	Ns. Aric Vranada, MSN, Ph.D	Pramudya	26.340.000,00
24	2025	Dr. Maya Dian Rakhmawatie, M.Sc., Apt.	S1 Kedokteran	Analisis Profil Darah Lengkap (Eritrosit, Trombosit, Leukosit, Makrofag) dan Interleukin-6 Untuk Evaluasi Hasil Tes Cepat Molekuler Pasien Terduga Tuberkulosis Paru	Penelitian Tesis Magister	Arya Iswara, Ph.D	Fani Febriani	25.140.000,00

25	2025	Dr. Maya Dian Rakhmawatie, M.Sc., Apt.	S1 Kedokteran	Deteksi Gen vanA Penyandi Resistensi Vankomisin pada Staphylococcus aureus Isolat Klinis Pasien Untuk Pemetaan Ancaman Baru dalam Pengobatan Antibiotik	Penelitian Tesis Magister	Maikel Ntolidi		35.390.000,00
26	2025	Mudyawati, M.Si., Ph.D	S2 Ilmu Laboratorium Klinis	Analisis Metabolomik Feses Tikus (Rattus Norvegicus) Model Diabetes Mellitus Setelah Pemberian Kombucha-Bunga Telang	Penelitian Tesis Magister	-	-	38.870.000,00
27	2025	Mudyawati, M.Si., Ph.D	S2 Ilmu Laboratorium Klinis	Klasifikasi Kanker Payudara Dengan Pendekatan Metode Support Vector Machine Dan Fungsi Kernel RBF Berdasarkan Data Klinis, Stadium Kanker dan Hasil Imunohistokimia	Penelitian Tesis Magister	Arya Iswara, S.Si., M.Biomed., Ph.D	-	25.700.000,00
28	2025	Dr. Stalis Norma Ethica, M.Si	S2 Ilmu Laboratorium Klinis	Evaluasi Aktivitas Antibiofilm Lipase Bacillus licheniformis R2.5 terhadap Pseudomonas spp. Hasil Skrining Gen Penyandi Biofilm	Penelitian Tesis Magister	Dr. Eng Nanik Rahmani	Indah Nurhayati S. Tr. AK	26.660.000,00 Total Rp. 3.252.960.000 Convert to USD 181031,78

Description:
(*Please describe total of sustainability research fund. The following is an example of the description. You can describe more related items if needed*.)

Total research fund dedicated to sustainability research in 2023 = 189629,14 US Dollars
Total research fund dedicated to sustainability research in 2024 = 228242,53 US Dollars
Total research fund dedicated to sustainability research in 2025 = 268432,30 US Dollars
The averaged annum last 3 years of research fund dedicated to sustainability research = 195284,40 US Dollars

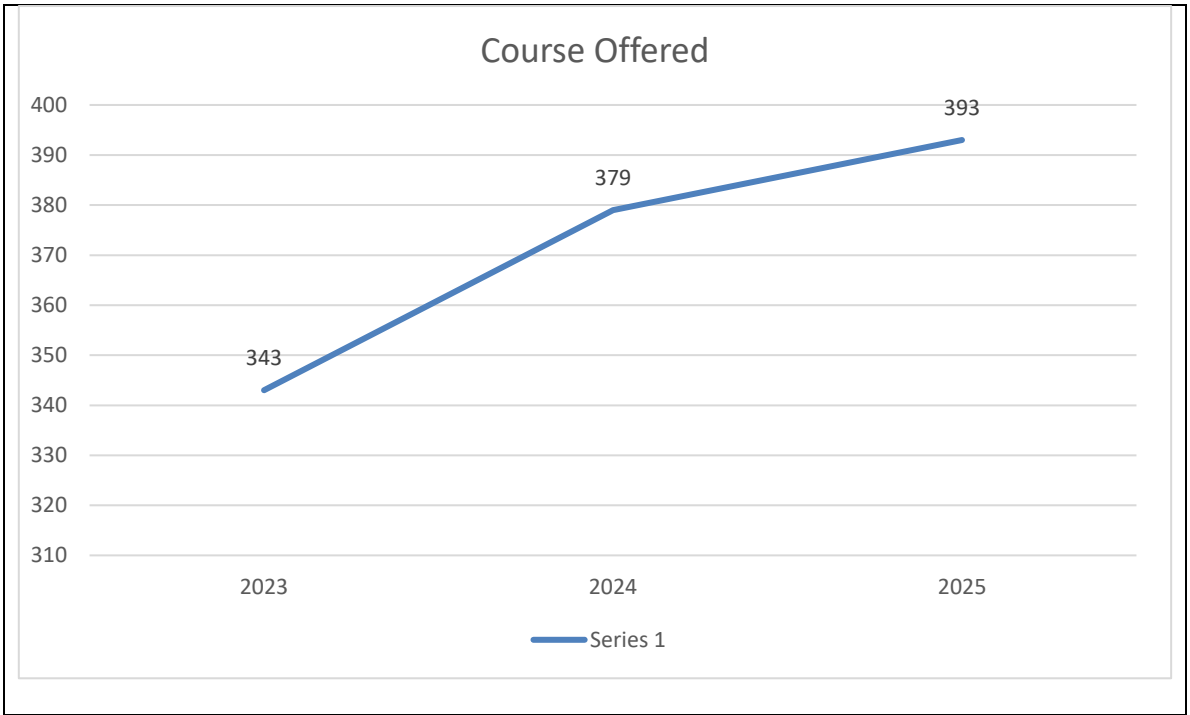
Evidence of funding can be found here
https://docs.google.com/spreadsheets/d/10ldJbnea3sr_ccOTqohs5j_s4b5WAv0i/edit?usp=sharing&ouid=103264142106073034773&rtpof=true&sd=true

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.2] Total Number of Courses/Subjects Offered



Total Courses Offered in 2023-2025

Description:

2023	343
2024	379
2025	393

Total number of courses offered in 2025 = 393 courses

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://drive.google.com/drive/folders/1VF6i5xWbRjywPf3sxmUgZQ7hstbOcikw?usp=drive_link

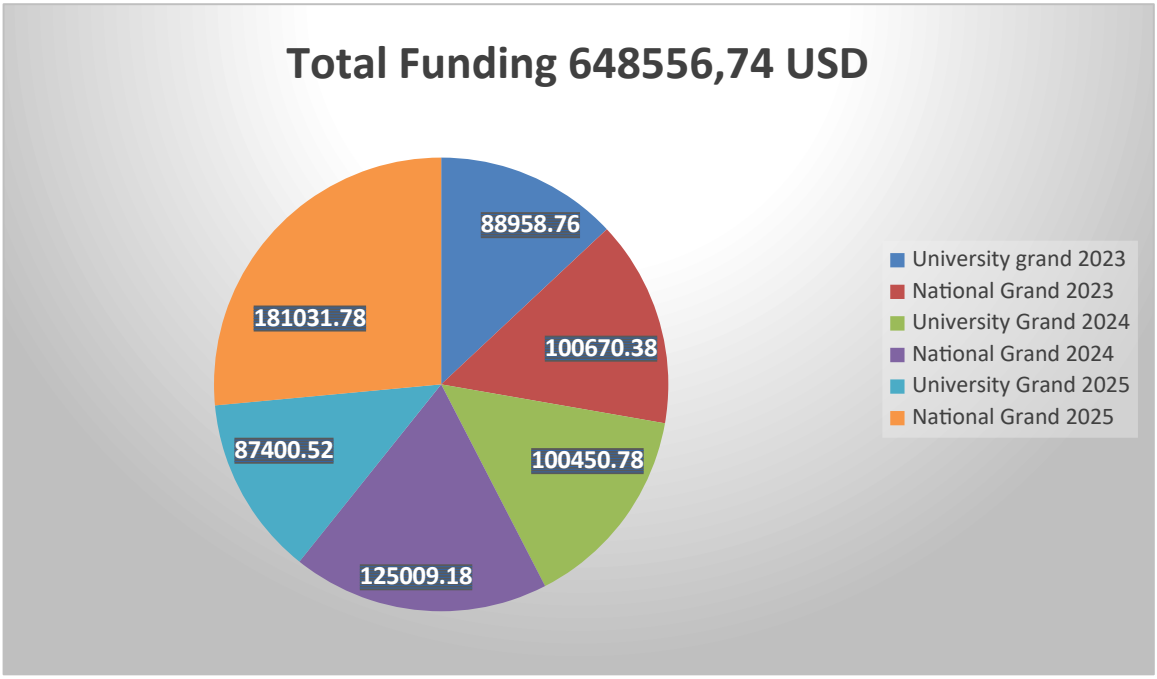
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education and Research (ED)

SAMPLE

[6.6] Total Research Funds (in US Dollars)



Description:
(*Please describe total of sustainability research fund. The following is an example of the description. You can describe more related items if needed*.)

Total research fund dedicated to sustainability research in 2023 = 189629,14 US Dollars
Total research fund dedicated to sustainability research in 2024 = 228242,53 US Dollars
Total research fund dedicated to sustainability research in 2025 = 268432,30 US Dollars
The averaged annum last 3 years of research fund dedicated to sustainability research = 195284,40 US Dollars

Evidence of funding can be found here
https://docs.google.com/spreadsheets/d/10ldJbnea3sr_ccOTqohs5j_s4b5WAv0i/edit?usp=sharing&ouid=103264142106073034773&rtpof=true&sd=true

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education and Research (ED)

SAMPLE

[6.8] Number of lecturers and researchers on campus in one year period

NO	Faculties	NIDN	NIDK	Total
1	Fakultas ilmu keperawatan dan kesehatan *Faculty of Nursing and Health Sciences*	82	-	82
2	Fakultas kesehatan masyarakat *Faculty of Public Health*	16	-	16
3	Fakultas kedokteran umum *Faculty of Medicine*	49	-	49
4	Fakultas kedokteran gigi *Faculty of Dentistry*	42	-	42
5	Fakultas Ilmu Komputer dan Teknologi Digital *Faculty of Computer Science and Digital Technology*	35	-	35
6	Fakultas teknik *Faculty of Engineering*	33	-	33
7	Fakultas Ekonomi Hukum dan Bisnis *Faculty of Economics, Law, and Business*	46	-	46
8	Fakultas ilmu pendidikan dan humaniora *Faculty of Educational Sciences and Humanities*	30	-	30
9	Fakultas Sains dan Teknologi Pertanian *Faculty of Agricultural Science and*	19	-	19

	Technology			

Description:
(*Please describe number of lecturers and researchers on campus in one year period. The following is an example of the description. You can describe more related items if needed*.)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education and Research (ED)

[6.9] Number of scholarly publications on sustainability in one year period

SAMPLE

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https://drive.google.com/drive/folders/1_HKmtWcMOQI-KzvMVBsfgtX7FQqB5QyN?usp=sharing

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
1	Dr. dr. Titin Setyowati, Sp.An. (Cegah Sejak Dini Diabetes Mellitus Penyebab Stroke)	2025	EC00202500983 - 000840346 - 03-01-2025
2	Ns. Anna Kurnia, M.Kep, Sp.Kep.M.B. - Ns. Arief Yanto, M.Kep. - Ns. Anna Kurnia, M.Kep., Sp.Kep.M.B. (Pengkajian Dekubitus dan Tirah Baring pada Lansia)	2025	EC00202500984 - 000840347 - 03-01-2025
3	Ns. Anna Kurnia, M.Kep, Sp.Kep.M.B. - Dr. Ns. Yunie Armiyati, M.Kep, Sp.Kep.MB. - Ns. Khoiriyah, S.Kep., M.Sc. - Reezq Akhlas Wuddy Mustafa (Swallowing Exercise dan Stimulasi Air Asam Jawa)	2025	EC00202500985 - 000840348 - 03-01-2025
4	M. Al Haris, M.Si. - Dannu Parwanto, S.T., M.Kom. - Dr. Ali Imron, M.Pd.I. - Arya Praditya - RA. Qonita Syalsabilla Handayani (Buku Panduan Teknologi Ramah Lingkunan Desa Margohayu)	2025	EC00202501002 - 000840365 - 03-01-2025
5	M. Al Haris, M.Si. - Dannu Parwanto, S.T., M.Kom. - Dr. Ali Imron, M.Pd.I. - Arya Praditya - RA. Qonita Syalsabilla Handayani (Vidio Kegiatan Pemberdayaan Berbasis Masyarkat dalam Penerapan Teknologi Ramah Lingkunan di Desa Margohayu)	2025	EC00202501004 - 000840367 - 03-01-2025
6	M. Al Haris, M.Si. - Dannu Parwanto, S.T., M.Kom. - Dr. Ali Imron, M.Pd.I. - Arya Praditya - RA. Qonita Syalsabilla Handayani (Poster Kegiatan Peningkatan Kemandirian Energi Terbarukan di Desa Margohayu Demak Melalui Teknologi Ramah Lingkungan)	2025	EC00202501005 - 000840368 - 03-01-2025
7	Bagas Aditya - Andari Puji Astuti, M.Pd. - Ratna Anggianti (Poster pembelajaran Biokimia dalam pemanfaatan Limbah kulit buah kopi sebagai Eco-enzyme untuk alternatif tanpa limbah di daerah perkebunan)	2025	EC00202504962 - 000844325 - 11-01-2025
8	Atik Nur Malasari - Annisa Firdaus - Intan Nabilla - Dr.	2025	EC00202504963 - 000844326 -

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	Eny Winaryati, M.Pd. (Batomik: Scientific Eco Friendly Batik)		11-01-2025
9	Atik Nur Malasari - Annisa Firdaus - Intan Nabilla - Dr. Eny Winaryati, M.Pd. (Batomik: Scientific Eco Friendly Batik)	2025	EC00202504964 - 000844327 - 11-01-2025
10	Atik Nur Malasari - Dr. Yusrin, M.Pd. (Alat Destilasi Sederhana)	2025	EC00202504966 - 000844329 - 11-01-2025
11	Dr. Apt. Muslimah, S.Si., M.M. - dr. Nina Anggraeni Noviasari, M.Kes. - Iqbal Gibran Paleri Senja Belantara - Dr. dr. Rochman Basuki, M.Sc. - dr. Swasty, Sp.M. - dr. Wijayanti Fuad, M.H. - M Azka Hibbat Wafi - Aviscena Mohammad Baihaqi - Amalina Putri Fatiha - Abdurrahman Rafif (Cegah Stroke Dengan Gaya Hidup Sehat , Yuk Kenali IWT !!!)	2025	EC00202504967 - 000844330 - 11-01-2025
12	Dr. Apt. Muslimah, S.Si., M.M. - dr. Nina Anggraeni Noviasari, M.Kes. - Qeyza Naufalia Riz Asmara - Naufal Najib - Yazid Ahmad Hanif - Aga Tri Kurnia (SANTRI DAN KEBIASAAN MAKRUHNYA)	2025	EC00202504970 - 000844333 - 11-01-2025
13	Dr. Supriyanto, M.Pd. (Determinasi Sosial Budaya dalam Pengelolaan TBC)	2025	EC00202504968 - 000844331 - 11-01-2025
14	Arief Hendra Saptadi, S.T., M.Eng. - Aris Kiswanto, S.T., M.T. - Tomi Harmika, S.T. (Praktikum Rangkaian Listrik)	2025	EC00202512577 - 000851940 - 25-01-2025
15	Elok Faola, S.Kep., Ns - Dr. Ernawati, M.Kes - Dr. RNgt. Amin Samiasih, M. Si.Med - Ns. Satriya Pranata., M.Kep., Ph.D - Dr. Ns. Vivi Yosafianti Pohan, M.Kep (Modul Pembelajaran “SPIRITUAL INTELLIGENCE TRAINING”)	2025	EC00202512573 - 000851936 - 25-01-2025
16	Muhammad Zainudin Al Amin, S.Kom., M.Kom. - Basirudin Ansor, S.Kom., M.Kom. - Fahri - Eva Febyliana - Dewi Rahmawati (Aplikasi Augmented Reality 3D Ruangku)	2025	EC00202512578 - 000851941 - 25-01-2025
17	Ns. Mariyam, M.Kep. Sp.Kep.An - Ns. Dera Alfiyanti, M.Kep. (PKM-Peningkatan pengetahuan dan ketrampilan perawat serta keterlibatan keluarga dalam manajemen nyeri neonatal di perinatologi)	2025	EC00202512579 - 000851942 - 25-01-2025
18	Anwar Saifudin, S.Kep.,Ns - Dr. Tri Hartiti, SKM., M.Kep - Dr. Ns. Vivi Yosafianti Pohan, M.Kep - Dr. Sri Rejeki, S.Kp,.M.Kep.,Sp.Mat - Dr. Ernawati, M.Kep (BOOKLET DISCHARGE PLANNING STROKE “ÍDEMU”)	2025	EC00202512574 - 000851937 - 25-01-2025
19	Cecep, S.Kep.,Ns - Dr. Tri Hartiti, SKM., M.Kep - Dr. Ns. Vivi Yosafianti Pohan, M.Kep - Dr. Ns. Sri Rejeki, S.Kp., M.Kep., Sp.Mat - Dr. Ns. Machmudah, S.Kep., M.Kep., Sp.Kep.Mat (Supervisi Klinik Model Academic (SKMA))	2025	EC00202512575 - 000851938 - 25-01-2025

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
20	Sri Hapsari Suhartono Putri, S.Gz., M.Gizi - Dwi Purwanti, Amd. G.Z. - Yuliana Noor Setiawati Ulvie, S.Gz., M.Sc. - Syafa Firstyaningrum (KIPER SI GIZI)	2025	EC00202512580 - 000851943 - 25-01-2025
21	Sri Hapsari Suhartono Putri, S.Gz., M.Gizi - Dwi Purwanti, Amd. G.Z. - Yuliana Noor Setiawati Ulvie, S.Gz., M.Sc. (Posisi dan Pelekatan Menyusui)	2025	EC00202512581 - 000851944 - 25-01-2025
22	Sri Hapsari Suhartono Putri, S.Gz., M.Gizi - Dwi Purwanti, Amd. G.Z. - Yuliana Noor Setiawati Ulvie, S.Gz., M.Sc. (Sosialisasi Kiper Si Gizi Puskesmas Dempet)	2025	EC00202512583 - 000851946 - 25-01-2025
23	Sri Hapsari Suhartono Putri, S.Gz., M.Gizi - Dwi Purwanti, Amd. G.Z. - Yuliana Noor Setiawati Ulvie, S.Gz., M.Sc. (Berbagai Masalah Dan Solusi Menyusui)	2025	EC00202512584 - 000851947 - 25-01-2025
24	Candra Permadi, S.Kep. Ns. - Dr. Edy Soesanto, M. Kes. - Dr. Ratih Sari Wardani, M. Kes. - Dr. Siti Aisah, M. Kep., Sp. Kom. - Ns. Aric Vranada, MSN., Ph. D. (MODUL KOMBINASI KEGEL'S EXERCISE DAN AKUPRESUR PADA PASIEN BPH PASCA TURP)	2025	EC00202512585 - 000851948 - 25-01-2025
25	Candra Permadi, S.Kep. Ns. - Dr. Edy Soesanto, M. Kes. - Dr. Ratih Sari Wardani, M. Kes. - Dr. Siti Aisah, M. Kep., Sp. Kom. - Ns. Aric Vranada, MSN., Ph. D. (Tutorial Kombinasi Kegel's exercise dan akupresur pada pasien Benigne prostate of hipertropi pasca transurethral resection of the prostate)	2025	EC00202512586 - 000851949 - 25-01-2025
26	Muhammad Amar Alfarizi - Muhammad Muhibbi, M.Pd. (PENDIDIKAN INDONESIA MAJU)	2025	EC00202517685 - 000857048 - 08-02-202
27	Gela Setya Ayu Putri, S.Tr.A.K., M. Kes. (Pre-analitik, analitik, dan post-analitik pemeriksaan Clotting time metode Object glass)	2025	EC00202518364 - 000857727 - 10-02-2025
28	dr. Swasty, Sp.M. ("Retinopati Diabetika")	2025	EC00202518365 - 000857728 - 10-02-2025
29	Wahyu Imam Santoso, S.TP., M.P. - Azis Setyo Aji - Gitsa Ayu Ryanta Dewi - Sheryl Aurellia Sanjana - Dimas Aditama (Analisis Budidaya Padi)	2025	EC00202518366 - 000857729 - 10-02-2025
30	Wahyu Imam Santoso, S.TP., M.P. - Sulistia Putri - Muchammad Afan Rezal - Mila Agustina Putri - Muhammad Yusuf Ramadhani (Masa Depan Pertanian yang Berkelanjutan)	2025	EC00202520875 - 000860238 - 14-02-2025
31	Wahyu Imam Santoso, S.TP., M.P. - Melysa Ade Waninda - Muhammad Arkha Fadhlurrahman Firdaus - Avida A'izzatul Maghfiroh - Sabikha Dwi Septiani (Penerapan Agribisnis: Pembuatan Tauge Dari Kacang Hijau)	2025	EC00202520878 - 000860241 - 14-02-2025
32	Wahyu Imam Santoso, S.TP., M.P. - Ahmad Al 'Alim - Nisa Herliani - Taufiq Aji Winarno - Suci Alivia Ramadhani (Peran Agribisnis dalam Ekonomi Pertanian di Indonesia)	2025	EC00202520881 - 000860244 - 14-02-2025

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
33	Wahyu Imam Santoso, S.TP., M.P. - Riska Azmiatun Nasywa Zahrani - Sabrina Cahya Ariyanti - Jalu Daksa Pramudita - Fahreza Febriansyah Kurniawan (Dokumenter Perjuangan Petani di Ladang Bawang)	2025	EC00202521360 - 000860723 - 14-02-2025
34	Wahyu Imam Santoso, S.TP., M.P. - Raafi Dwi Setiawan - Imelda Revy Ghaisani - Muhammad Zidan Purwantono - Niken Nidahas Nevin (Perjalanan Agribisnis: Menelusuri Jejak Pangan Kita)	2025	EC00202521361 - 000860724 - 14-02-2025
35	Wahyu Imam Santoso, S.TP., M.P. - Yovita Salsabila Putri Murpratiwi - Najahan Bagus Ahmad - Didan Nugraha - Andika Dwi Faisal (Memberdayakan Petani Lokal untuk Pertumbuhan Ekonomi)	2025	EC00202521362 - 000860725 - 14-02-2025
36	Asiva Khoirunisa (Gerbang Kehidupan Anak Manusia)	2025	EC00202521363 - 000860726 - 14-02-2025
37	Bdn. Erna Kusumawati, S.ST., M.Kes. - Bdn. Siti Istiana, S.SiT., M.Kes. - Dr. Bdn. Fitriani Nur Damayanti, S.ST.SH., M.H.Kes. (Video Pembelajaran “Teknik Rebozo Dalam Persalinan”)	2025	EC00202521364 - 000860727 - 14-02-2025
38	Herlisa Anggraini, S.K.M., M.Si.Med. - Diaz Rizky Dwi Cahyani - Fifiana Angelia (Leaflet “Penyuluhan Upaya Meningkatkan Pengetahuan Masyarakat Mengenai Penyakit Tuberkulosis Di Desa Srondol Kulon RW 5”)	2025	EC00202523490 - 000862853 - 19-02-2025
39	Meutia Srikandi Fitria, S.Si., M.Biotech. (Prinsip dan Cara Kerja Alat Nanopro Spektrofotometer)	2025	EC00202523493 - 000862856 - 19-02-2025
40	dr. Gharini Sumbaga Narhadina, M. Biomed. (Pengendalian faktor resiko stunting)	2025	EC00202523494 - 000862857 - 19-02-2025
41	dr. Tri Kartika Setyarini, MSi. Med., SpA (Waspada DBD Saat Musim Penghujan Tiba)	2025	EC00202523497 - 000862860 - 19-02-2025
42	Philip Purworahyono - Dr. Ali Rosidi, S.K.M., M.Si. - Dr. Ns. Sri Rejeki, M.Kep., Sp.Mat. - Dr. Tri Hartiti, M.Kep. - Dr. Edy Soesanto, M.Kes. (Evaluasi Tingkat Kecemasan Pada Pasien Anak Di Ruang Perawatan Anak Dengan Atraumatic Care)	2025	EC00202524578 - 000863941 - 21-02-2025
43	Afita Permatasari - Inka Piola Naretin Rahayu - Andari Puji Astuti, M.Pd. (CICILAN PERHATIAN)	2025	EC00202524717 - 000864080 - 22-02-2025
44	Inka Piola Naretin Rahayu -Afita Permatasari - IAndari Puji Astuti, M.Pd. (CICILAN PERHATIAN)	2025	EC00202524718 - 000864081 - 22-02-2025
45	Arnia Azahro Aufanida - Hersanti Sulistyaningrum, S.Gz., M.Gz. - Addina Rizky Fitriyanti, S.Gz., M.Gz. - Firdananda Fikri Juharany, S.Gz., M.Gz. (Skill Lab Uji Protein)	2025	EC00202524719 - 000864082 - 22-02-2025
46	Dr. Didik Sumanto, S.K.M., M.Kes.Epid - Irfanul Chakim, S.K.M., Ph.D.Sc. - Sarah Hafidzah (Formulasi Pakan Tikus Hiperlipidemia)	2025	EC002025027555 - 2025-03-03
47	Ria Purnawian Sulistiani, S.Gz., M.Gz. - Intan Nur Aeni - Fitria Novrida Andriyani - Hafizna Binta Azahra	2025	EC002025027556 - 2025-03-05

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	(Metode Healthy Millenial Card Sebagai Upaya Pencegahan Anemia Pada Santriwati Di Pondok Pesantren)		
48	Syafa Firstyaningrum - Addina Rizky Fitriyanti, S.Gz., M.Gz. - Firdananda Fikri Jauharany,S.Gz., M.Gz. - Dimas Cahyo Satrio (Anemia Pada Remaja Putri)	2025	EC002025027557 - 2025-03-05
49	Ramadhan Agung Wijayandaru - Venissa Dian Mawarsari, M.Pd. - Martyana Prihaswati, S.Si., M.Pd. (E-Modul Matematika Berbasis Problem Based Learning Pendekatan STEM Pada Materi Barisan Dan Deret Bilangan Kelas X)	2025	EC002025027565 - 2025-03-05
50	Anggita Nur Septiyani - Arrumaisya Zahra Maula - Amanda Eka Putri - Addina Rizky Fitriyanti, S.Gz, M.Gz. (Pengaruh Junk Food bagi Kesehatan)	2025	EC002025027566 - 2025-03-05
51	dr. Wahju Budi Martono, Sp.THT-KL, M.Si.Med (Deteksi Dini Sinusitis)	2025	EC002025027610 - 2025-03-05
52	Nurhidayah, S.Kep.Ns. - Dr. Tri Hartiti, S.K.M., M.Kep. - Dr. Siti Aisah, M. Kep., Sp. Kom. - Dr. Ernawati, M.Kes. - Dr. Sri Rejeki, S.Kp,.M.Kep.,Sp.Mat. (Buku Modul Pencegahan Anemia Pada Remaja Putri)	2025	EC002025027685 - 2025-03-05
53	Ns. Cecep, S.Kep. - Dr. Tri Hartiti, S.K.M., M.Kep. (Sistem Informasi Kepuasan Pasien Berbasis Quick Response (Sikapas QR))	2025	EC002025027687 - 2025-03-05
54	Yunta Charisma - Dr. Edy Soesanto, M. Kes. - Dr. Ratih Sari Wardani, M. Kes. - Dr. Ns. Chanif, S. Kep., MNS - Ns. AricVranada, M.Kep., Ph.D. (Modul Manajemen Perawatan Diri (Self-Management) Bagi Orand Dengan HIV/AIDS)	2025	EC002025027688 - 2025-03-05
55	Alya Dwi Arianty - Atik Nur Malasari - Andari Puji Astuti, M.Pd. (Warna yang kupilih)	2025	EC002025030002 - 2025-03-11
56	Atik Nur Malasari - Alya Dwi arianty - Andari Puji Astuti, M.Pd. (Warna yang kupilih)	2025	EC002025030001 - 2025-03-11
57	Cut Imanda Niya Taqwa Alifa - Safna Fahmae Afinda - Yulisa Sintia Sari - Puput Sandy Agustin - Ananda Badi'atul Firdaus - Citra Meidina - Samrotul Jannah - Khoirunisa Putri Salsabila - Bachrul Alam - Vivi Erina Fazriani - Candika Dewi - Anugrah Syafira Pawae - Rahmawati Ikoni - Farros Irfan Aryaguna (Buku Kurikulum Program Penguatan Kapasitas Organisasi Mahasiswa (PPK ORMAWA): Pemberdayaan Masyarakar Kelurahan Plamongan Sari melalui Peningkatan Kader Sehat dengan Gerakan "Mawas Warga" guna Mewujudkan Kelurahan Rumah Lansia)	2025	EC002025030864 - 2025-03-13
58	Mukti Rahmah Inayati - Natasya Rahmaniyah - Andari Puji Astuti, M.Pd. (POSTER FILM "ANTARA AKU DAN MOZAIK KEHIDUPAN")	2025	EC002025029466 - 2025-03-10
59	Ns. Dewi Setyawati, MNS- Ns. Dera Alfiyanti, M.Kep. -	2025	EC002025037662

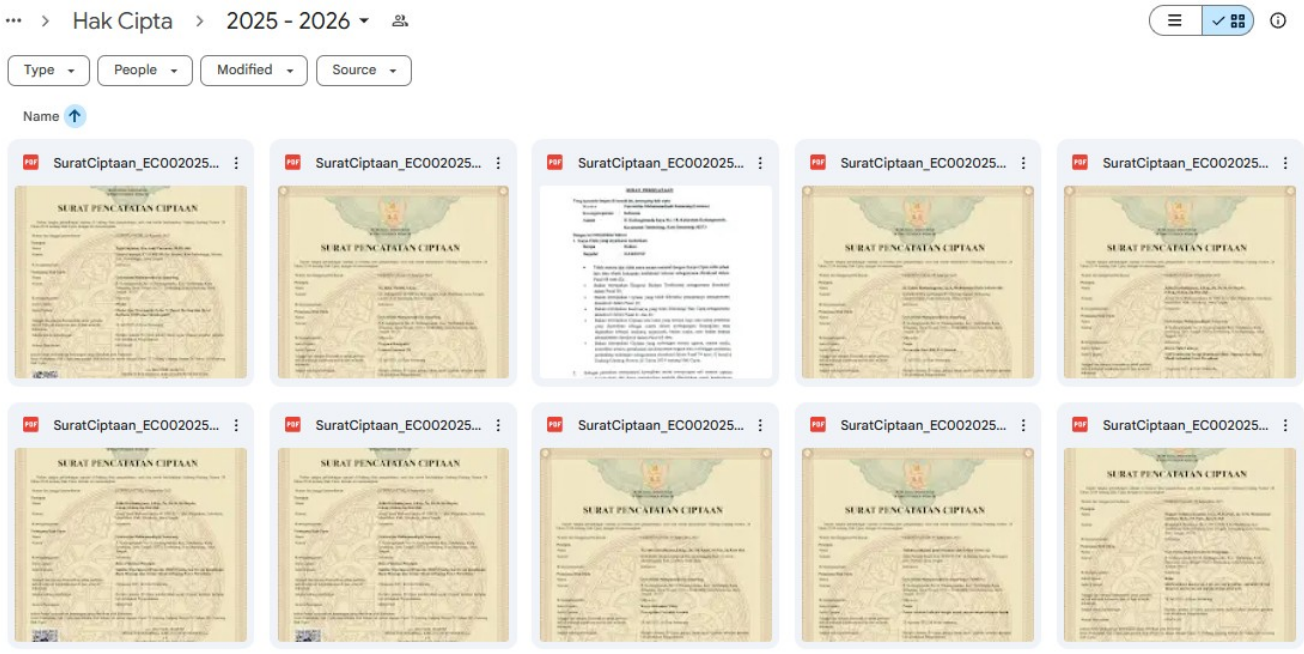
No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	Ns. Mariyam, M.Kep. Sp.Kep.An (Pengkajian Perkembangan Keluarga Tahap II: Keluarga dengan Mengasuh Anak Pertama (Child bearing Family))		2025-04-10
60	Ns. Dewi Setyawati, S.Kep., MNS - Ns. Arief Yanto, M.Kep. - Ns. Dwi Nur Rahmatika Puji Safitri, M.Ke (Pengkajian Perkembangan Keluarga Tahap I: Keluarga Pasangan Baru Menikah (Married Couples))	2025	EC002025034963 2025-03-24
61	Rr. Annisa Ayuningtyas, M.Gz. - Sri Hapsari Suhartono Putri, M.Gizi - Aisyah Nur Fadhila Nugraha - Putri Khairani (Cantik Jelita Bebas Anemia)	2025	EC002025031067 13/03/2025
62	Siswandari Noertjahjani, S.T., M.T. (Video Pembelajaran metode numerik BAB III Sistem Persamaan Linier)	2025	EC002025030003 - 2025-03-11
63	Siswandari Noertjahjani, S.T., M.T. (Modul praktikum metode numerik : Kesalahan absolut dan relatif ;Akar – akar persamaan)	2025	EC002025030005 - 2025-03-11
64	Susi Nurjanah - Adila Nazwa Fauzia - Andari Puji Astuti, M.Pd. (Kita Setara)	2025	EC002025029464 - 2025-03-10
65	Yunta Charisma - Dr. Edy Soesanto, M. Kes. - Dr. Ratih Sari Wardani, M. Kes. (Rancang Bangun Aplikasi Vitaplan (Aplikasi Self-Management Bagi Orang dengan HIV/AIDS))	2025	EC002025029467 - 2025-03-10
66	Aisyah Nur Fadhila Nugraha - Rr. Annisa Ayuningtyas, M.Gz. (Tips Pola Hidup Sehat Mahasiswa)	2025	EC002025036230 2025-03-29
67	Aisyah Nur Fadhila Nugraha - Rr. Annisa Ayuningtyas, M.Gz. (Tips Pola Makan Sehat Mahasiswa di bulan Ramadhan)	2025	EC002025036231 2025-03-29
68	Ns. Dewi Setyawati, MNS - Ns. Dera Alfiyanti, M.Kep. - Ns. Mariyam, M.Kep. Sp.Kep.An (Pengkajian Perkembangan Keluarga Tahap II: Keluarga dengan Mengasuh Anak Pertama (Child bearing Family))	2025	EC002025037662 2025-04-10
69	Ns. Dewi Setyawati, S. Kep. - Muh. Anugrah Gemilang - Muh. Anugrah Gemilang - Sufia Rahmawati (Pengkajian Perkembangan Keluarga pada Tahap I: Keluarga dengan Pasangan Baru Menikah (Married Couples))	2025	EC002025037659 2025-04-10
70	Ns. Dewi Setyawati, S.Kep., MNS. - Much Nurkharistna Al Jihad - Dr. Edy Soesanto, SKp., M.Kes. - Sufia Rahmawati - Muhammad Arif Zakyuddin - Titanic Puput Yust Vita (Pengkajian Perkembangan Keluarga pada Tahap II: Keluarga dengan mengasuh anak pertama (Child Bearing Family))	2025	EC002025038771 2025-04-10
71	Mariyati Mardjuky - Mariyati Mardjuky - Dr. Ns. Yunie Armiyati,M.Kep.Sp.Kep.MB - Dr. Tri Hartiti,SKM M.Kep. - Dr. Ir. Rahayu Astuti,M.Kes (MODEL HPM : Pendekatan Persepsi Kerentanan, Persepsi Keparahan, Persepsi Tindakan, Hambatan Tindakan	2025	EC002025041961 2025-04-24

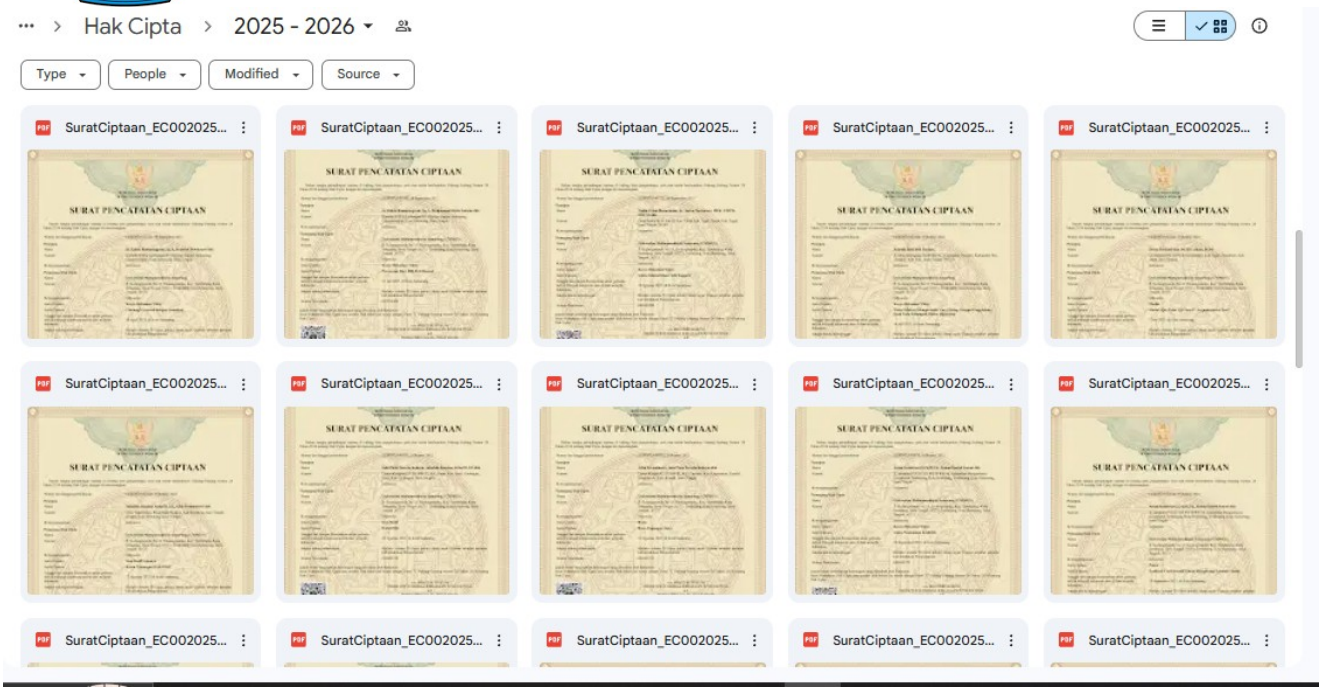
No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	(PASTI) (untuk Meningkatkan Kepatuhan Ibu Hamil dalam Konsumsi Tablet Fe))		
72	Roselly Purba - Sri Hapsari SP - Dr. Ari Istiany., M.Si., SP - Ir. Agus Sartono, M.Kes (GIZI SEIMBANG ANAK SEKOLAH DASAR)	2025	EC002025042580 2025-04-24
73	Roselly Purba - Sri Hapsari SP - Dr. Ari Istiany., M.Si., SP - Ir. Agus Sartono, M.Kes (GIZI SEIMBANG ANAK SEKOLAH DASAR)	2025	EC002025042986 2025-04-24
74	dr. Hema Dewi Anggraheny, M.Kes., - M. Surya Oka Tanjung - Tessa Rahma Adila - Tessa Rahma Adila - Satriana Kusuma Dewi - Norma Cahaya Diesel - Ratna Mustika Devitasari (Pentingnya Antenatal Care bagi Ibu Hamil dan Edukasi Kehamilan)	2025	EC002025041278 2025-04-24
75	dr. Rifka Widianingrum, M.Biomed - Dr. Bdn. Fitriani Nur Damayanti, S.ST., - Aulia Gistiana Adi (Video Edukasi Gerakan Cat Stretch saat Dismenore)	2025	EC002025040219 2025-04-17
76	dr. Rifka Widianingrum, M.Biomed - Dr. Bdn. Fitriani Nur Damayanti, S.ST., - Aulia Gistiana Adi (Video Edukasi Terapi Kompres Hangat saat Dismenore)	2025	EC002025040201 2025-04-17
77	Dr. R.Ngt. Amin Samiasih, S.Kp. M.Si.Med - Dr. Tri Hartiti, S.KM., M.Kep., Ns. Pawestri, S.Kep, M.Kes, (Terapi Bekam Pada Lansia Dengan Hipertensi)	2025	EC002025038775 2025-04-14
78	Much Nurkharistna Al Jihad, M.Kep, Sp. - Amalina Najiyah - Fahya Lovito Kurniawan - Titanic Puput Yust Vita (Pengkajian Perkembangan Keluarga pada Tahap VIII : Keluarga Masa Pensiun & Lansia (Aging Family))	2025	EC002025038772 2025-04-14
79	Chintia Evril - Venissa Dian Mawarsari, M.Pd - Iswahyudi Joko Suprayitno, S.Si., M.Pd (Worksheet Matematika Berbasis Discovery Learning Dengan Nuansa Etnomatematika Untuk Meningkatkan Kemampuan Komunikasi Matematis Siswa Kelas VIII)	2025	EC002025046162 2025-05-05
80	Azfa Nurhidayah - Venissa Dian Mawarsari, M.Pd - Rohmat Suprapto, S.Ag, M.SI (Barust : Media pembelajaran Interaktif Materi Bangun Ruang Sisi Datar dalam Kemampuan Berpikir Geometri)	2025	EC002025046161 2025-05-05
81	Ns. Ulfa Innayah, S.Kep. - Dr. Ernawati, M.Kes.- Dr. Sri Rejeki, M.Kep.,Sp.Mat - Dr. Siti Aisah,M.Kep.Sp.Kom. - Dr. Machmudah, M.Kep.Sp.Mat. (SILAPIS (Sistem Informasi Pelaporan Insiden Keselamatan Pasien))	2025	EC002025045821 2025-05-02
82	ELCOTIKA: E-LKPD Berbasis CORE Pendekatan Etnomatematika Materi Relasi dan Fungsi untuk Siswa Kelas VIII. (ELCOTIKA: E-LKPD Berbasis CORE Pendekatan Etnomatematika Materi Relasi dan Fungsi untuk Siswa Kelas VIII.)	2025	EC002025045212 2025-05-02

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
83	Ns. Yanuan Ben Olina., S.Kep., MSN - Muh. Anugrah Gemilang - Titanic Puput Yust Vita - Sufia Rahmawati (Pengkajian Perkembangan Keluarga pada Tahap III: Keluarga Anak usia Pra sekolah)	2025	EC002025045301 2025-04-29
84	Hafidz AL Qodri, S.Kep., Ners - Dr. Tri Hartiti, SKM.,M.Kep - Dr. Siti Aisah, M. Kep., Sp. Kom - Dr. Ernawati, M.Kes - Dr. Sri Rejeki, S.Kp,.M.Kep.,Sp.Mat (Website : Piece Of Health By Al Qodri)	2025	EC002025043446 2025-04-28
85	Yanuan Ben Olina - Sufia Rahmawati - Muhammad Arif Zakyuddin - Meira Restiana (Pengkajian Perkembangan Keluarga pada Tahap VIII : Keluarga Masa Pensiun & Lansia (Aging Family))	2025	EC002025045259 2025-04-28
86	Much Nurkharistna Al Jihad - Amalina Najiyah -Fahya Lovito Kurniawan - Titanic (Pengkajian Perkembangan Keluarga pada Tahap VIII : Keluarga Masa Pensiun & Lansia (Aging Family))	2025	EC002025043399 2025-04-28
87	Much Nurkharistna Al Jihad - Sufia Rahmawati - Muhammad Anugrah Gemilang - Meira Restiana (Pengkajian Perkembangan Keluarga pada Tahap VII : Keluarga Orang Tua Usia Pertengahan (Middle-aged Family))	2025	EC002025043467 2025-04-28
88	Alma Rif'atun Nisa - Dr. Abdul Aziz, M.Pd - Eko Andy Purnomo,M.Pd (MathWizh : Media Pembelajaran Digital Berbasis Realistic Mathematic Education (RME) Pada Materi SPLDV)	2025	EC002025042468 2025-03-04
89	Yanuan Ben Olina - Sufia Rahmawati - Muhammad Arif Zakyuddin - Meira Restiana (Pengkajian Perkembangan Keluarga pada Tahap VI: Keluarga dengan Pelepasan Anak Usia Dewasa Muda)	2025	EC002025047921 2024-11-28
90	Muhammad Amar Alfarizi - Sayid Fariz Bin Seh Abubakar., S.Pd., (Pencak Silat Warisan Budaya Bangsa)	2025	EC002025067088 2025-05-19
91	Ibnu Sulthan Daffa Maulana - Muhammad Muhibbi, M,Pd (Waspada Judi Online)	2025	EC002025067118 2025-05-16
92	Aziz Amrulloh - Muhammad Muhibbi, M,Pd (Pendidikan Olahraga)	2025	EC002025067095 2025-05-16
93	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Nury Sukraeny, S.Kep., MNS. - Ns. Akhmad Mustofa, M.Kep - Dian Rizki Lestari - Muhammad Adam Simambura - Amalina Najiyah - Fahya Lovito Kurniawan (Pengkajian Perkembangan Keluarga pada Tahap V: Keluarga Anak Usia Remaja)	2025	EC002025067048 2025-05-15
94	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Nury Sukraeny, S.Kep., MNS. - Ns. Akhmad Mustofa, M.Kep - Ns. Erna Sulistyawati, M.Kep., Sp. Kep.- Dian rizki Lestari - Amalina Najiyah - Muhammad Adam Simambura (Pengkajian Perkembangan Keluarga pada Tahap IV: Keluarga	2025	EC002025058779 2025-05-15

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	Anak Usia Sekolah (School-Aged Family))		
95	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Desi Ariyana Rahayu, M.Kep., Sp. - Ns. Satriya Pranata, M.Kep., Ph.D (Pengkajian Perkembangan Keluarga Tahap IV: Keluarga Anak Usia Sekolah (Families with School-Aged Children))	2025	EC002025058778 2025-05-15
96	Yanuan Ben Olina - Sufia Rahmawati - Muhammad Arif Zakyuddin - Meira Restiana (Pengkajian Perkembangan Keluarga pada Tahap VIII : Keluarga Masa Pensiun & Lansia (Aging Family))	2025	EC002025047921 2025-05-08
97	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Warsono, M.Kep., Sp.Kep.MB - Akhmad Mustofa (Pengkajian Perkembangan Keluarga Tahap V: Keluarga Anak Usia Remaja)	2025	EC002025058777 2025-05-14
98	Mudyawati Kamaruddin, M.Kes., PhD - Maruf Ghifari -Islahul Umam- Intan Windi Anggraeni - Try Bintang Adilah Mauliddini - Laulita Nur Arsy Fauziyah - Dina Muarifatul Afifah -Bima Surya Setyawan -Nafis Gimastiar Ahmad - Bachtiar Indra Giri - Reza Adi Tri Rianto (PKMD 17 Desa Tegaron Kec Banyubiru Kab Semarang tahun 2025)	2025	EC002025047051 2025-01-29
99	dr. Chamim Faizin, M.M.R., FISPH., FISCM, Hendra Hartono, Putri Aulia, Sonya Dara Puspita, Salma Ardelia Cahyawati, Zulfa Luqyana Aprilia Basuki, Maura Aleyda Widyastuti, R.A. Alya Faadiya Azzah, Muhammad Najmuddin, Alvina Amalia Rosanti, Melinda Intan Sophia (Hipertensi The Silent Killer)	2025	EC002025047924 2025-05-08
100	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Warsono, M.Kep., Sp.Kep.MB (Pengkajian Perkembangan Keluarga Tahap V: Keluarga Anak Usia Remaja)	2025	EC002025058777
101	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Desi Ariyana Rahayu, M.Kep., Sp. Kep. Jiwa - Ns. Satriya Pranata, M.Kep., Ph.D (Pengkajian Perkembangan Keluarga Tahap IV: Keluarga Anak Usia Sekolah (Families with School-Aged Children))	2025	EC002025058778
102	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Nury Sukraeny, S.Kep., MNS. - Ns. Akhmad Mustofa, M.Kep. - Ns. Erna Sulistyawati, M.Kep., Sp. K - Dian rizki Lestari - Muhammad Adam Simambura - Amalina Najiyah (Pengkajian Perkembangan Keluarga pada Tahap IV: Keluarga Anak Usia Sekolah (School-Aged Family))	2025	EC002025058779
103	Dr. Ns. Siti Aisah, M.Kep., Sp.Kom - Ns. Nury Sukraeny, S.Kep., MNS. - Ns. Akhmad Mustofa, M.Kep. - Ns. Erna Sulistyawati, M.Kep., Sp. K - Dian rizki Lestari - Muhammad Adam Simambura - Amalina Najiyah (Pengkajian Perkembangan Keluarga	2025	EC002025058779

No	Pencipta (Judul Ciptaan)	Tahun	Keterangan
	pada Tahap IV: Keluarga Anak Usia Sekolah (School-Aged Family))		
104	Aziz Amrulloh - Muhammad Muhibbi, M,Pd (Pendidikan Olahraga)	2025	EC002025067095
105	Ibnu Sulthan Daffa Maulana- Muhammad Muhibbi, M,Pd (Waspada Judi Online)	2025	EC002025067118
106	Muhammad Amar Alfarizi - Sayid Fariz Bin Seh Abubakar., S.Pd., M.Or (Pencak Silat Warisan Budaya Bangsa)	2025	EC002025067088
107	Anwar Saifudin, S.Kep.,Ns (Aplikasi MPP Dokumentasi IAR (Informasi, Analisa, Rencana) RSUD Brebes)	2025	EC002025075219
108	Ns. Syafika Putri Alya, S.Kep - Dr. Ns. Yunie Armiyati, M.Kep., Sp.KM - Dr. M. Fatkhul Mubin, M.Kep.,Sp.J (Aplikasi Digital)	2025	EC002025075220





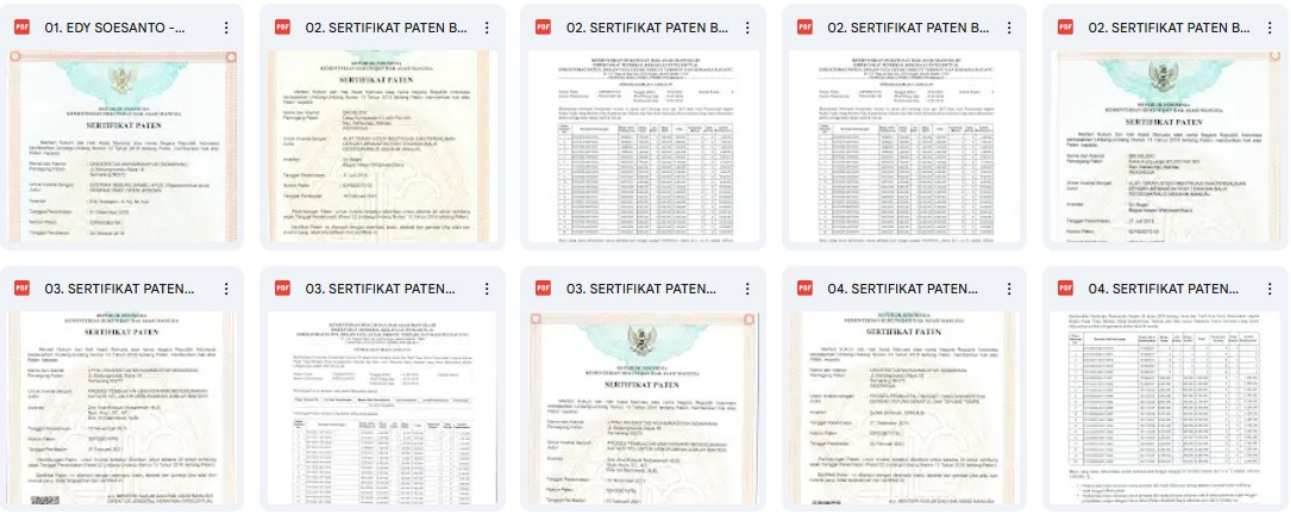
Paten/ Paten Sederhana 2023-2025
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No	Inventor (Judul Paten/ Paten Sederhana)	Tahun	Keterangan
1.	Amin Samiasih - Khoiriyah - Aditya Rahman Ernanto (EKSTRAK KULIT PISANG KEPOK KUNING SEBAGAI ANTI INFLAMASI PADA LAMBUNG	2025	Granted IDS000010295 - 30 April 2025
2.	Stalis Norma Ethica - Nur Hidayati - Tri Joko Raharjo - Dewi Seswita Zilda (PRODUK MIKROKAPSUL PROTEASE BAKTERI Bacillus sp. ISOLAT USUS TERIPANG PASIR	2025	GRANTED - IDS000011277 - 16 September 2025
3.	Dr. Eny Winaryati, M.Pd. - Dr. Muhammad Munsarif, M.Kom. - Dr. Mardiana, M.Pd.I. - Dr. Suwahono, M.Pd. (DESAIN PLATFORM DIGITAL: MODEL EVALUASI PADA SUPERVISI PEMBELAJARAN BERBSIS 4 C'S (MESp 4Cs)	2025	GRANTED - IDS000011302 - 17 September 2025
4.	Nurhidajah, Ali Rosidi, Diode Yonata (Metode Pembuatan Serbuk Antosianin Berbahan Beras Hitam Indonesia Varietas Jeliteng	2025	GRANTED - IDS000007315 - 30 Januari 2025
5.	Dr. Nurrahman, M.Si. - Rr. Annisa Ayuningtyas, M.Gz. - Diode Yonata, MTP. (PROSES PEMBUATAN SUP INSTAN DARI LABU KUNING YANG DITAMBAH TEPUNG PORANG SEBAGAI BAHAN PENGENTAL	2025	GRANTED - IDS000011172 - 02 September 2025

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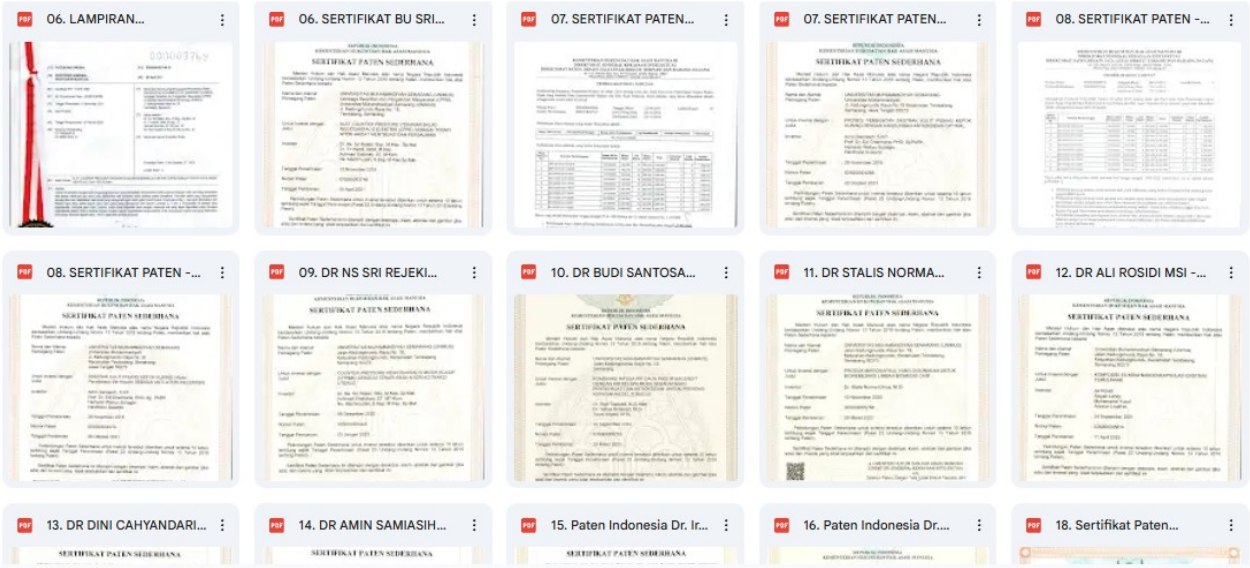
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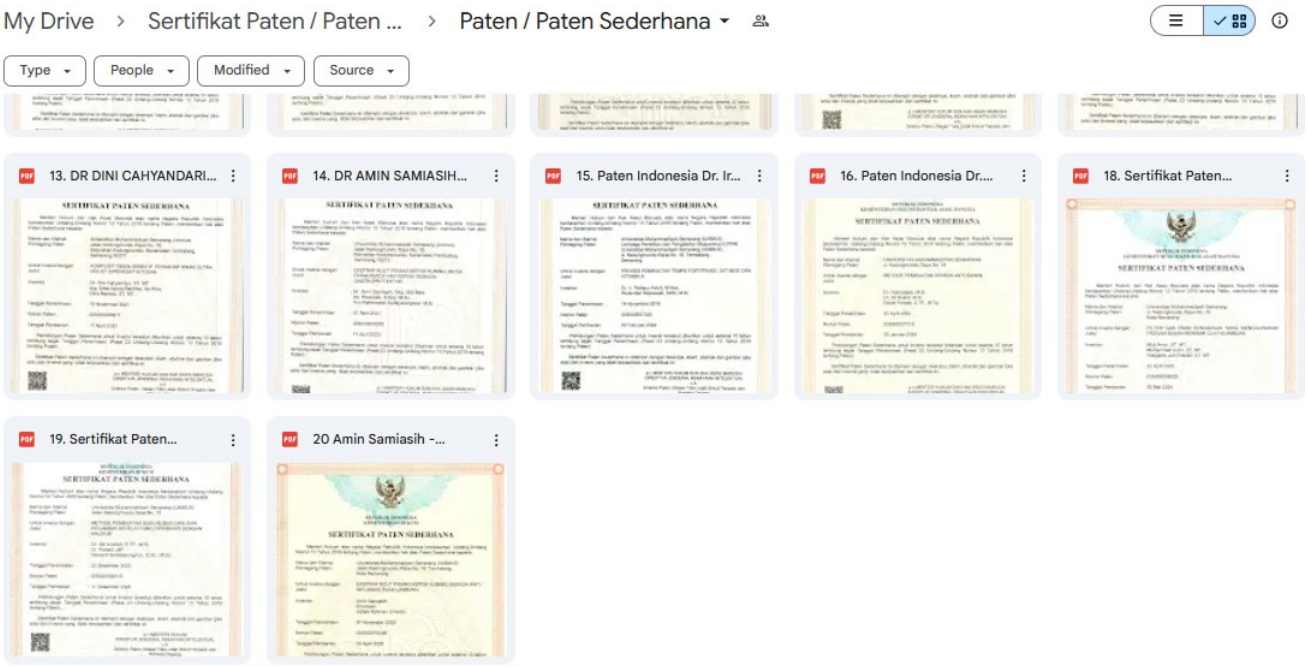
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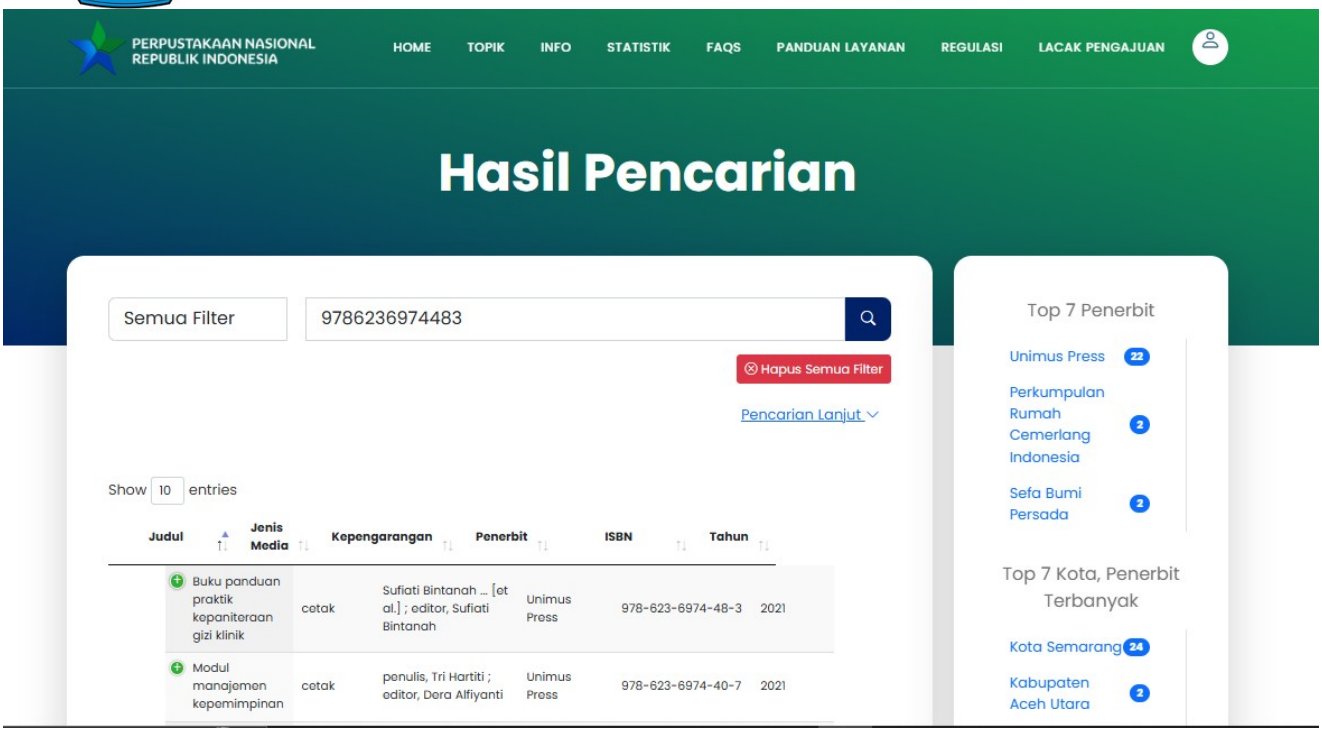


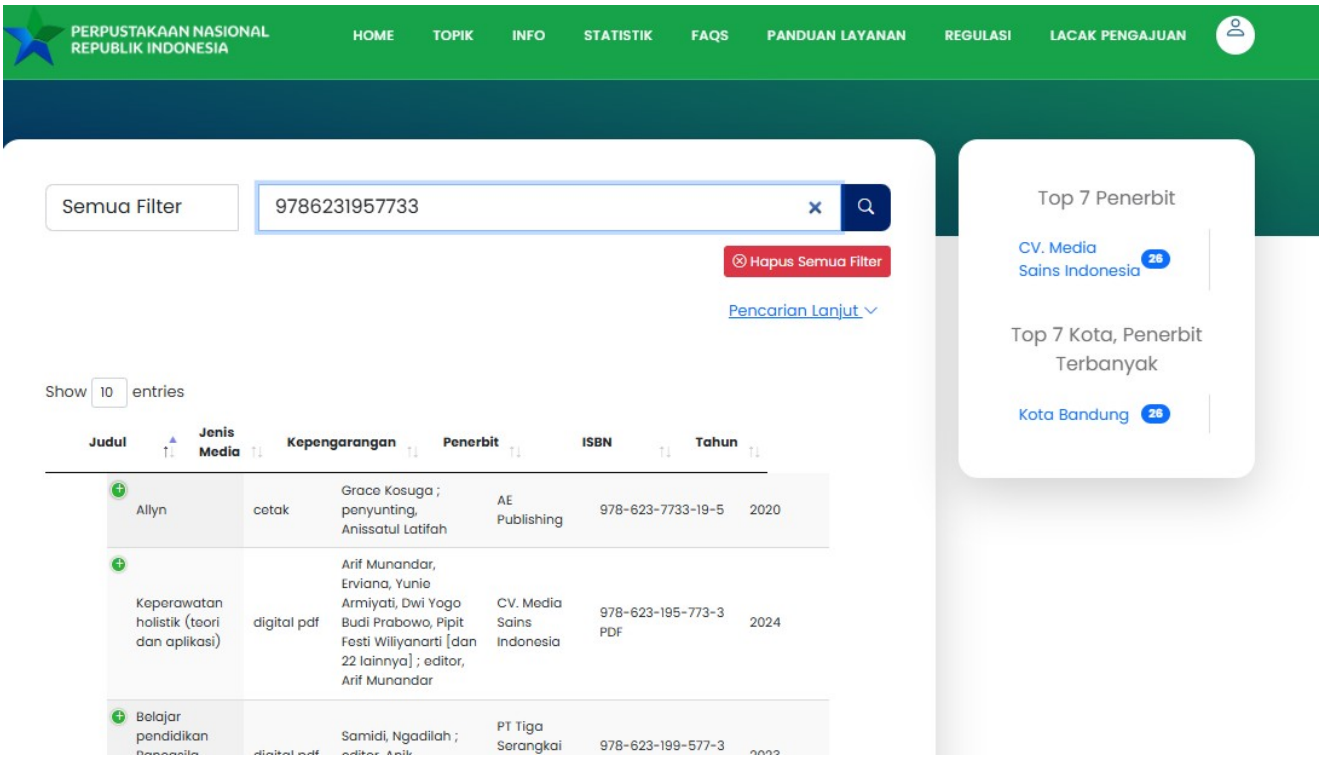


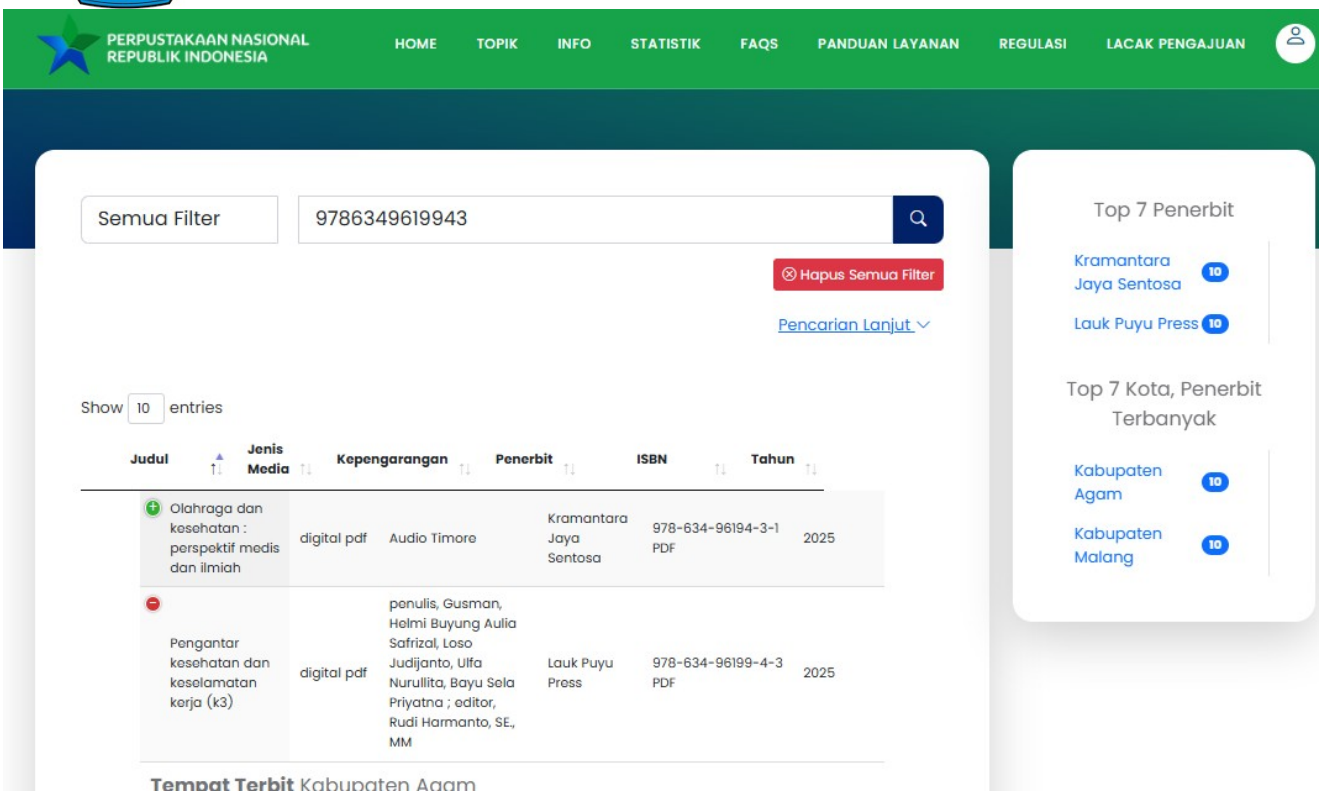
Books 2025

No	Judul Buku ber-ISBN / Book Chapter	Tahun	ISBN
1.	Pendidikan olahraga	2025	9786347082084
2.	Metagenomik MIkrobiota Usus Ibu Hamil dan Bayinya dengan Teknologi Long-Read Sequencing Nanopore	2025	9786234665673
3.	Implementasi Pembuatan Tempe Fortifikasi Zat Besi dan Vitamin A Oleh Produsen Tempe	2025	9786347119018
4.	Dzikir Dalam Dunia Kesehatan: Terapi Komplementer Berbasis Spiritual	2025	9786238650613
5.	PENGANTAR ILMU KOMUNIKASI	2025	9786238968190
6.	Dasar-Dasar Perpajakan	2025	9786347065483
7.	Pengantar Pemrograman Basis Data untuk TI	2025	9786231137029
8.	Teknik praktis akuntansi keuangan syari'ah : teori & praktik	2025	9786231614308
9.	Pengantar Teknologi Informasi di Bidang Kesehatan	2025	9786231137227
10.	Buku Ajar Manajemen Pemasaran	2025	9786347062499
11.	Manajemen Pendidikan Islam	2025	9786347065834
12.	Beber ceting : bergerak bersama catin cegah stunting	2025	9786347119025
13.	Windows Dan Ms.Office Untuk Pemula Sampai Mahir	2025	9786231293091
14.	APLIKASI PROMOSI KESEHATAN DIBERBAGAI TATANAN	2025	9786342215005
15.	Keamanan Jaringan dan Sistem Informasi	2025	9786231085573
16.	Explorar la tendencia del uso de la tecnologia y la innovacion	2025	9786208802646
17.	explorer les tendances en matiere d"utilisasion des technologies et d"innovation	2025	9786208802653
18.	Esplorare la tendenza all"uso della technologia e all innovazione	2025	9786208802677
19.	Badanie trendow w zakresie wykorzstania technologii i innowachi	2025	9786208802783
20.	Explorar a tendencia da utilizacao e inovacao tecnologicas	2025	9786208802806
21.	Erkundung des trends zu technologienutzung und innovation	2025	9786208802592
22.	PENCEGAHAN DAN PERAWATAN PADA CIDERA OLAHRAGA	2025	9786231256683
23.	DASAR-DASAR KEPELATIHAN OLAHRAGA: TEORI DAN PRAKTIK	2025	9786231090355
24.	Pemeriksaan Urinalisis Pada Teknologi Laboratorium Medis	2025	9786231257291

No	Judul Buku ber-ISBN / Book Chapter	Tahun	ISBN
25.	Ekonomi syari'ah-Konsep dan Transformasi Keuangan Berbasis Nilai Islam di Era Digital	2025	9786342216408
26.	Anatomi Manusia: Ilustrasi dan Penjelasan Berdasarkan Sistem Organ	2025	9786347221605
27.	Patologi & Fisiologi Persalinan (Distosia dan Konsep Persalinan)	2025	9786235085661
28.	MANAJEMEN DAN KEPEMIMPINAN DALAM PRAKTIK KEBIDANAN	2025	9786238988709
29.	Perawatan luka pada pasien diabetes melitus (diabetic foot)	2025	9786235125282
30.	Artificial Intelligence Ethical Aspects Midwifery and Nurse	2025	9786347119032
31.	BIOLOGI LAUT	2025	9786238990931
32.	ILMU KESEHATAN MASYARAKAT	2025	9786347200334
33.	Pengantar manajemen bisnis	2025	9786347269096
34.	Dasar-Dasar Psikologi Islam	2025	9786347200785
35.	PENINGKATAN KESEHATAN ANAK MELALUI POLA TIDUR YANG BAIK	2025	9786347294166
36.	Pendidikan Multikultural dalam Islam	2025	9786347065629
37.	Buku Pedoman Magang Mahasiswa Di Luar Kampus	2025	7660704254728
38.	MANAJEMEN LOGISTIK DAN OBAT RUMAH SAKIT	2025	9786342481158
39.	Manajemen Keuangan UMKM Era Digital	2025	9786342500538
40.	STATISTIK DESKRIPTIF DENGAN AI ChatGPT dan DeepSeek	2025	9786340415230
41.	KEPERAWATAN MEDIKAL BEDAH	2025	9786235126203
42.	Manajemen Risiko Dalam Kesehatan Dan Keselamatan Kerja	2025	9786349610445
43.	Keperawatan Maternitas (Konsep dan Penerapan)	2025	9786235126418
44.	Kedokteran Gigi Anak	2025	9786342482735
45.	Uni English 101	2025	9786235227290
46.	ADMINISTRASI RUMAH SAKIT DAN KESEHATAN	2025	9786342483633
47.	BIOLOGI ORAL KEDOKTERAN GIGI	2025	9786238701346
48.	Narrative Text	2025	9786342390701
49.	Model latihan dan adaptasi fisiologis untuk pengembangan kebugaran dan prestasi	2025	9786347314741
50.	Pengantar Keselamatan dan Kesehatan Kerja (K3)	2025	9786349619943
51.	CARA CEPAT BELAJAR PENCAK SILAT	2025	9786832045695
52.	ILMU OLAHRAGA: TEORI DAN PRAKTIK	2025	9786349623681
53.	Digital Dental Health Community Empowerment	2025	9786347188731
54.	Mengenal Enterobacteriaceae (Mikroskopis, Makroskopis Hingga teknik Identifikasi)	2025	9786340111637
55.	PRACTICAL ENGLISH FOR STUDENT NURSES	2025	9786342391655
56.	Metodologi Penelitian Kesehatan	2025	9786347307422
57.	Inovasi dalam Perawatan Luka Kanker	2025	9786235126753
58.	Keua gan berkelanjutan. Strategi investasi dan manajemen risiko untuk masa depan	2025	9786340406146
59.	Grand Syekh Al-Azhar dan Perdamaian Dunia	2025	9786236427583
60.	Membongkar Kecerdasan Buatan Konsep dan Aplikasinya	2025	9786231324320
61.	Edukasi Manajemen Nyeri Dengan Media Elektronik Untuk Meningkatkan Pengetahuan, Sikap, dan Praktik Ibu Dalam Manajemen Nyeri Anak Selama Hospitalisasi	2025	9786347139924
62.	Keperawatan Dasar (Teori Aplikasi)	2025	9786235126951


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Unimus Press
978-623-6974-48-3
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penulis, Tri Hartiti ; editor, Dera Alfiyanti
Unimus Press
978-623-6974-40-7
2021
Top 7 Penerbit
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Perkumpulan Rumah Cemerlang Indonesia 2
Sefa Bumi Persada 2
Top 7 Kota, Penerbit Terbanyak
Kota Semarang 24
Kabupaten Aceh Utara 2


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2020
Keperawatan holistik (teori dan aplikasi)
digital pdf
Arif Munandar, Erviana, Yunie Armiyati, Dwi Yogo Budi Prabowo, Pipit Festi Wiliyanarti [dan 22 lainnya] ; editor, Arif Munandar
CV. Media Sains Indonesia
978-623-195-773-3 PDF
2024
Belajar pendidikan
Samidi, Ngadilah ;
PT Tiga Serangkai
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Top 7 Kota, Penerbit Terbanyak
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penulis, Gusman, Helmi Buyung Aulia Safrizal, Loso Judijanto, Ulfa Nurullita, Bayu Sela Priyatna ; editor, Rudi Harmanto, SE., MM
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Kramantara Jaya Sentosa 10
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Top 7 Kota, Penerbit Terbanyak
Kabupaten Agam 10
Kabupaten Malang 10

Publications 2025

No.	Jenis Publikasi	2025	Link Tabel
1	Jurnal nasional tidak terakreditasi	112	https://docs.google.com/spreadsheets/d/15VA9t2AF-qrcySevwpjDH62F6jxBWe-g/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
2	Jurnal nasional terakreditasi	90	https://docs.google.com/spreadsheets/d/1Qel5vltl4-CKfw8WEjd6gMjonEbKF-aC/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
3	Jurnal internasional	60	https://docs.google.com/spreadsheets/d/1nIPjTNTZOmuFVHSz57zBgAUc0M7f12IM/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
4	Jurnal internasional bereputasi	85	https://docs.google.com/spreadsheets/d/14qBxWcB2A6ojtdnadv4s3_22CrMxN7_S/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
5	Seminar nasional	120	https://docs.google.com/spreadsheets/d/1urxyGoi9q-KHgbYoKIaCFwYezypSquil/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
6	Seminar internasional	91	https://docs.google.com/spreadsheets/d/13fBh-Jxwa7_tWPO0oMBxFVevJPcMthdt/edit?usp=sharing&ouid=110277001608611371681&rtpof=true&sd=true
	Jumlah	558	

Description:
scholarly publications on sustainability in the academic year 2025.
A total scholarly publication in 2025 is **733 publications**

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://docs.google.com/spreadsheets/d/1jKAtA7L16h8aYQzO3UbCWvpS-CUNsel5/edit?gid=1916530649#gid=1916530649

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

SAMPLE

[6] Education and Research (ED)

[6.10] Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period (ED.3)

Total lecturers and researchers in one year period	**2471**
Total scholarly publication in one year period	**3120 publications**

Description:
(*Please describe ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period. The following is an example of the description. You can describe more related items if needed. Please provide Screenshot of Scopus/Google Scholar results showing the year filter, (if available) affiliation filter, query/keywords, and total results count)*

Ratio of scholarly publications on sustainability to lecturers and researchers on campus in one year period:
Total scholarly publication in one year period/ Total lecturers and researchers in one year period

= 3120/2471
= 7.7

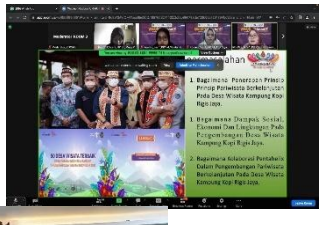
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

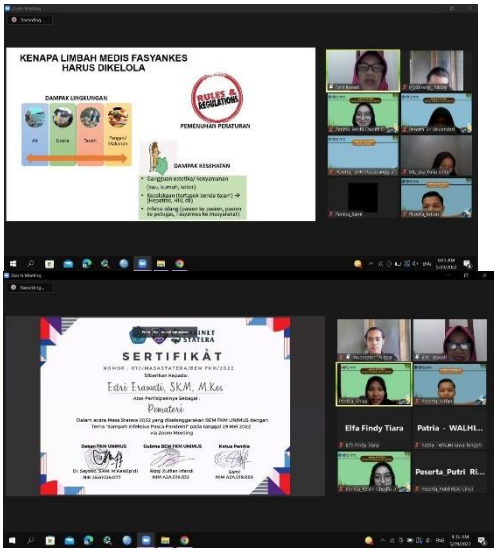
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.11] Number of Events Related to Sustainability (ED.4)

No	Activity	Description	Time	Place
1	National Seminar on Publication of Research and Community Service Results Volume 6	"Building Social Order in the Era of the Industrial Revolution 4.0 in Supporting the Achievement of Sustainable Development Goals (SDGs)" This activity aims to encourage cross-disciplinary collaboration in facing social, economic, and environmental challenges in the digital era, while strengthening the contribution of higher education in achieving sustainable development goals (SDGs). Through this seminar, participants have the opportunity to share innovative research and community service results, expand academic networks, and improve the quality of national scientific publications.    **Report activity :** https://drive.google.com/file/d/1Sj0V0QZexkIxJIHraZz8xw8n7iBiwzjW/view?usp=sharing	October 18, 2023	Universitas Muhammadiyah Semarang
2	FKM Plants: “Care for the Environment	 	Student Executive Board of FKM	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
	, Green Nature	waste management, students are encouraged to play an active role in maintaining ecosystem balance and reducing the impact of environmental damage. Through a spirit of mutual cooperation and ecological awareness, it is hoped that sustainable, environmentally friendly behavior will develop for a greener and healthier future for the earth. Report Activity : https://drive.google.com/file/d/1eFr1Z4GVJNfQLCWsSFqg4MSosghbWSe_/view?usp=sharing	July 11, 2023	
3	FKM "Statera Period"	The Statera Period is a work program of the Strategic Action Study Department of BEM FKM UNIMUS in the form of a discussion where students can increase their insight, it is a discussion forum that discusses issues related to developing health and the issue that will be raised is the issue of environmental health with the theme of Handling COVID-19 Infectious Waste on Human Health and the Environment. This theme emphasizes the importance of safe, effective, and environmentally friendly infectious waste management, from sorting, collection, storage, and disposal. It also highlights the role of the government, the community, and healthcare institutions in ensuring the implementation of policies and education regarding medical waste management. 	Student Executive Board of FKM May 29, 2024	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
		Report activity : https://drive.google.com/file/d/1fmzTcMSlIz0o3Xa_FIk1eoRuSt21tdxn/view?usp=sharing		
4	Community service	The "UNIMUS Serves Sepakung Village" program is a community service program initiated by the Student Executive Board of the Muhammadiyah University of Semarang Student Family (BEM KM UNIMUS), involving all student organizations (ormawa) within UNIMUS. This program demonstrates the synergy between student organizations in implementing student knowledge and skills to directly contribute to the community. The activity was implemented in Sepakung Village, Banyubiru District, Semarang Regency, one of the tourist villages that has high natural and social potential but still requires assistance in developing the economy, education, and public health.  Report Activity : https://docs.google.com/document/d/118Je-E47McmhAiYUq1In0brSMR0lKOuv/edit	Student Executive Board January 6, 2024	Village Sepakung, Semarang Regency

No	Activity	Description	Time	Place
5	Fostered Village	A community service program organized by the Student Executive Board of the Faculty of Nursing and Health Sciences (BEM FIKKES) at Muhammadiyah University of Semarang, in collaboration with all student organizations within FIKKES. This activity provides a collaborative platform for students to apply their knowledge, skills, and social leadership values to address community needs and challenges. Through this activity, students directly provide health education, community support, and empowerment based on promotion and prevention. The main focus of the activity includes improving health literacy, training in clean and healthy living behaviors (PHBS), basic health checks, and raising public awareness of the importance of a healthy lifestyle and a clean environment.  Report Activity : https://drive.google.com/file/d/1c5Bqbu2D3lyG9Byo0wK2caggtYDe5XYb/view?usp=sharing	FIKKES Student Executive Board May 15, 2024	Universitas Muhammadiyah Semarang
6	Month of Service	An annual community service program organized by the Student Executive Board of the Faculty of Medicine, Muhammadiyah University of Semarang (BEM FK UNIMUS). This activity demonstrates medical students' commitment to improving public	Student Executive Board of Medical Faculty June 2, 2024	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
		health and well-being. This program includes free health checkups, health seminars based on the theme chosen for the year, and public education on the importance of a healthy lifestyle and early disease detection. Through these activities, students are expected to play an active role as agents of change in the health sector and bridge the gap between medical science and the real needs of the community. This program not only focuses on medical services, but also prioritizes educational, promotive, and preventive approaches, so that people have the awareness and ability to maintain their health independently.  Report Activity : https://drive.google.com/file/d/1h-OGWZC9hwDfVN17RUdSCi1C3rwAwPAS/view?usp=sharing		
7	For Informatics Education	For-EDU HIMAFOR (Informatics for Education) is a community service program organized by the Informatics Student Association (HIMAFOR) of Muhammadiyah University of Semarang as a form of real contribution to the development of digital literacy in the vocational secondary education environment. This activity was carried out with students of SMKN 2 Semarang, specifically the Software and Game	Informatics Student Association March 21, 2024	State Vocational School 2 Semarang

No	Activity	Description	Time	Place
		Development (PPLG) 1 department, with the aim of providing education and training related to application development based on the Laravel framework. Through this activity, HIMAFOR students acted as facilitators and mentors, guiding students in understanding the basic concepts, project structure, and implementation of Laravel for creating web-based applications. Dokumentasi :  Report Activity : https://drive.google.com/file/d/1Jki6FtfmoPtQIULbL38qHjSw19yio_zE/view?usp=sharing		
8	HIMADIKMIA Teaching	This program was implemented at the Muhammadiyah Tlogosari Orphanage on March 23, 2024, and continued at the Pekunden Smart House on June 22, 2024. Through this activity, Chemistry HMJ students were present to help others and provide a fun learning experience for children and the surrounding community. The material is presented interactively through basic science education, simple experiments, and creative learning activities that foster participants' curiosity and enthusiasm for learning. Furthermore, these activities provide a platform for students to cultivate social empathy, hone their educational communication skills, and apply the values of chemical science in the context of community service.	Chemistry Student Association March 23 , 2024 and June 22, 2024	Muhammadiyah Tlogosari Orphanage

No	Activity	Description	Time	Place
		Report Activity : https://drive.google.com/file/d/1vM-_RahU3_A9sRQlbfk6eB2dL2W4wo8Y/view?usp=sharing		
9	Social Project	This program is organized by the Chemistry Education Department Student Association (HMJ) of Muhammadiyah University of Semarang as a form of implementation of the Catur Dharma of Higher Education, especially in the field of community service. The program took place in Tambak Rejo on June 23, 2024, focusing on teaching local children and providing interactive and enjoyable learning support. Through this activity, students acted not only as teachers but also as agents of social change, helping the community address educational challenges in the local area. This program is expected to foster a spirit of social concern, increase students' awareness of the importance of contributing to community development, and strengthen relationships between students and residents of the fostered villages.  Report Activity : https://drive.google.com/file/d/1vqDAsKBiOlb1KQBh5WARQlW55AFUMQvP/view?usp=sharing	Chemistry Student Association June 23, 2024	Fishpond Rejo
10	FEB Serves	"FEB Mengabdi" is a community service program organized by the Student Executive Board of the Faculty of Economics and Business (BEM FEB) of the University of Muhammadiyah Semarang as a	Student Executive Board of Faculty of Economics and	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
		tangible manifestation of student concern for the social environment. This program begins with an open donation activity in the form of money or goods that can be distributed by the community and the UNIMUS academic community through social media. All donations collected are used entirely to support the implementation of social activities within the FEB Mengabdi series. This activity consists of several main agendas, including the Free Clothes Stall, which provides suitable clothing for people in need; Blood Donation, as a form of student contribution in supporting national blood supply while fostering a humanitarian spirit; and the Children's Creativity House, which presents educational and interactive activities for children to foster a spirit of learning and creativity from an early age.  Report Activity : https://drive.google.com/file/d/1iCfGYdBOZBvoKJ6hbqKW977pNELcQKFV/view?usp=sharing	Business May 10, 2024	
11	Seminars and workshops on waste management	Waste management and green campus initiatives within universities aim to raise awareness among the academic community about the importance of sustainable waste management and support the implementation of the green campus concept.	September 1, 2025	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
	and green campus initiatives	These seminars and workshops feature speakers from academics, environmental practitioners, and local governments to discuss strategies for waste reduction, recycling, and environmentally friendly innovations on campus. https://unimus.ac.id/berkolaborasi-dengan-lkhp-pp-muhammadiyah-dan-latin-unimus-luncurkan-hutan-wakaf-pendidikan-di-lingkungan-kampus/     Report Activity : https://drive.google.com/file/d/1j16FT4KUUIB6a4GlROu_SI3OmT695YEl/view?usp=drive_link		
12	Training sessions on renewable energy and water conservation .	In the training activities, namely about renewable energy and water conservation, it is an educational activity to increase the understanding and full awareness of the academic community regarding the importance of using environmentally friendly energy sources and sustainable water management and encourage the application of green technology in the campus environment. https://unimus.ac.id/mpr-ri-goes-to-campus-at-unimus-encourages-energy-transition-and-environmental-concern-among-students/ 	September 25, 2025	Universitas Muhammadiyah Semarang

No	Activity	Description	Time	Place
		Report Activity : https://drive.google.com/file/d/1kdR6u_iv7XeOsO1NBGvDtx7gcct6mBSF/view?usp=drive_link		
13	Community service program on environmental cleanliness and tree planting	As a form of community service program on environmental cleanliness and tree planting. Environmental counseling and education must be implemented such as socializing the importance of cleanliness and greening, providing training on sorting organic and non-organic waste, carrying out community service and environmental cleanup (cleaning gutters, parks, roads and public areas), and planting trees and ornamental plants such as planting trees in village parks and mosques and providing plant seedlings to the community to care for together. https://unimus.ac.id/dalam-bayang-rob-ppk-ormawa-imm-asy-syifa-dan-upaya-mahasiswa-menjawab-krisis-iklim-di-sayung/	period July – November 2025	Sayung Demak



No	Activity	Description	Time	Place
		Report activity : https://drive.google.com/file/d/11RdixzUm_n1JsMmGHiUjvcO-EgHTLSTq/view?usp=drive_link		
14	Student Creativity Program for Community Service (PKP2) and National Student Science Week (Pimnas)	Introducing innovative internet-based smart agricultural technology that can help farmers monitor land conditions and optimize water use. In this activity, students provided training to farmers on how to use the smartpaddy system, including monitoring soil moisture, temperature, and irrigation efficiency. This program is expected to increase agricultural productivity while supporting sustainable and environmentally friendly agriculture. Direct implementation on pilot plots and discussions with local communities were conducted to adapt the technology to local needs. https://unimus.ac.id/tim-smartpaddy-unimus-laksanakan-sosialisasi-dan-implementasi-di-desa-kauman-kidul-salatiga/	period July – November 2025	Sayung Demak

No	Activity	Description	Time	Place
		 Report Activity : https://drive.google.com/file/d/15BDJHmrFSISImiRXZ-Efkf4FsEZ7YneQ/view?usp=drive_link		
15	PKK Ormawa Program Integrated Agricultural System Based on Simple Technology	The PKK Ormawa program carries out community empowerment activities. This program aims to increase the independence and food security of rural communities through the development of integrated agricultural systems based on simple technology (akashatani) and innovative food processing from local crops. https://unimus.ac.id/ppk-ormawa-himatepa-gagas-akashatani-dan-inovasi-pangan-di-kendal/	period July – November 2025	Sayung Demak

No	Activity	Description	Time	Place
		 Report activity : https://drive.google.com/file/d/1X44fMcY-J3fnYCFn0MdZ1zRRE0ciGL1f/view?usp=drive_link		
16	Student competitions and campaigns that promote	In this competency activity, students participated in the Green Innovation Challenge, an environmentally friendly innovation competition that encourages students to create solutions for waste management, renewable energy, and water conservation. In this activity, students were able to campaign for a	September 11–13, 2025.	Studec International Foundation in Kuala Lumpur, Malaysia

No	Activity	Description	Time	Place
	sustainability awareness.	student movement to reduce the use of single-use plastic and plant trees on campus. https://unimus.ac.id/mahasiswa-s1-engineering-elektro-unimus-raih-penghargaan-1st-best-speaker-asia-pasific-leaders-ambassadors-2025-dan-honorable-delegate-di-asia-pacific-leaders-summit-2025/  Report Activity : https://drive.google.com/file/d/1n3qPA6im5aaLcLteJNbX8P4meAdlazO3/view?usp=sharing		
17	International conference on food security	The International Conference on Food Security (ISC) aims to strengthen the role of universities in addressing global food challenges. The event also brings together experts and researchers from various countries to discuss technological strategies, sustainable resource management, and food security policies.	This event takes place October 3-4, 2025 at	GKB 2 Auditorium university

No	Activity	Description	Time	Place
		https://unimus.ac.id/unimus-bekerjasama-dengan-find4s-gelar-konferensi-internasional-bahas-ketahanan-pangan/  Report Activity : https://drive.google.com/file/d/1T2brNPgfC0tvUeKSiO6g8AxqYUgBSUMW/view?usp=sharing		
18	Community Service in Tambak Lorok Village	The four-day Community Service Program at Muhammadiyah University of Semarang covers five areas: education, health, social and environmental issues, creative media, and economic and entrepreneurial initiatives. The program includes outreach and training sessions, as well as various work programs aimed at developing the target areas. Over the four days, the entire community and students implemented work programs geared towards village advancement. The program began with mapping the village area to identify areas that needed improvement within the five areas. This mapping activity served as an important initial step in identifying potential and challenges within the target areas. After the mapping process was completed, the community service team developed	Student Executive Board June 26 – June 29, 2025	Tambak Lorok Village

No	Activity	Description	Time	Place
		specific work programs relevant to the community's needs.  Report activity : https://drive.google.com/file/d/11X94WqWCjXY4hwN33etOp7CR1f0vGAfH/view		
19	Ramadan Care Movement	The Ramadhan Peduli Movement is a social activity aimed at instilling Islamic values in children and sharing happiness with the surrounding community. This activity will take place over two days at the Pekunden Flats in Semarang, from Saturday, March 22, 2025, to Sunday, March 23, 2025.	Student Executive Board of Faculty of Economics and Business March 22-23, 2025	Pekunden Semarang

No	Activity	Description	Time	Place
		  Report activity : https://drive.google.com/file/d/19XzeX9a26qfTf6VYKzesvgrk58GCJD1Z/view		
20	Development Area	The Assisted Area program was implemented over two days. The first day began with an opening ceremony followed by training for integrated health post (Posyandu) cadres on anthropometric measurements and monitoring toddler growth and development. Afterward, FIKKES BEM students conducted a nutrition education simulation for cadres and parents of toddlers, followed by a hands-on practice of making innovative supplementary feeding (PMT) from mackerel. The second day, counseling on balanced nutrition and stunting prevention was carried out, as well as education on metabolic diseases including blood sugar, cholesterol, and uric acid. Afterward, free health checks were conducted for the community for early detection of metabolic diseases. It is hoped that	FIKKES Student Executive Board July 21-22, 2025	Golden Cape, Semarang

No	Activity	Description	Time	Place
		these Assisted Area activities will realize Tanjung Mas Village as a sustainable Nutrition Aware Village.  Report Activity : https://drive.google.com/file/d/1Yu2e568OAOMA-v07FBtI6p-CrNFhjSbL/view		
21	Ramadhan *Outreach*	Ramadhan outreach is a work program of the SOSMAS BEM FIKKES UNIMUS Department. This activity was held offline at the Riyaadlul Jannah Baiturrahman orphanage, Pedurungan Tengah, Semarang City, Central Java, on Tuesday, March 18, 2025. The purpose of this event was to strengthen ties, provide education, and share blessings.  Report Activity : https://drive.google.com/file/d/1JBp2wze44oWBw_QNKKxieb41qbKJztyI/view	FIKKES Student Executive Board March 18, 2025	Riyaadlul Jannah Baiturrahman Orphanage

No	Activity	Description	Time	Place
22	Sosmas of Solidarity	Sosmas of Solidarity (SOS) is a community service activity carried out by students as a tangible form of social concern for the conditions and needs of village communities. This activity carries the concept of participatory community empowerment, meaning students are present not only as program implementers, but also as community partners in designing and implementing relevant and sustainable activities. This activity will be held in Rowosari Village, Tembalang, Semarang for 4 days, with a series of programs covering educational, social, environmental, and health aspects. The form of activities will be adjusted to the local needs and potential of the assisted village based on the results of previous observations and coordination with the village authorities. 	FIPH Student Executive Board July 24 - July 27, 2025	Rowosari Village, Semarang

No	Activity	Description	Time	Place
		 Report activity : https://drive.google.com/file/d/1lyigxoUStzs5KPFnsleaHRq7GWgq9Jkj/view		
23	SECERIA	SECERIA is one of the work programs of the Department of Community Social Affairs of the Student Executive Board of the Faculty of Public Health, Muhammadiyah University of Semarang. This activity aims to spread goodness that is beneficial to the community, one of which is providing social assistance to children at the AL-AMANAH orphanage. This activity is carried out as a form of implementing social concern for the surrounding environment, especially to children in the orphanage, by providing education, playing together, and assistance in the form of basic food assistance needed by the orphanage to meet the daily needs of the orphanage residents. In addition, the counseling provided during this SECERIA activity is expected to increase children's knowledge about coughs and influenza diseases that often occur in the surrounding environment.	Student Executive Board of FKM May 4, 2025	Al-Amanah Orphanage

No	Activity	Description	Time	Place
		Report Activity : https://drive.google.com/file/d/1LVFcu9n_97oPtMDYshhcIgOFWFBQkShj/view		
24	FSTP Serves	The FSTP Mengabdi 2025 activity was held on July 14–16, 2025 in Branjang Village, Semarang Regency, Central Java, starting with registration and a farewell of the committee by the dean, followed by a trip to the location and the opening of the event. On the first day, activities included the socialization of digital sales strategies, algorithm data analysis practices, TPQ activities reciting the Koran together, and inspirational classes for children. The second day focused on the socialization of food processing innovations and marketing strategies for PKK mothers, practices for making harvested products, a waste recycling workshop with the *Ecobrick concept* , making recycling information signs, and a creative class making collages from natural materials with children. The final day closed with morning exercises, installing signs, praying together, and the return of all committee members.	Student Executive Board of FSTP July 14-16, 2025	Branjang Village, Semarang Regency

No	Activity	Description	Time	Place
		  Report Activity : https://drive.google.com/file/d/1pGf5IjFC3iOm0O6eYdA2h4_UR0gQzssV/view		

No	Activity	Description	Time	Place
25	Our Sustainability	The Lestari Kita activity was held on Friday, April 25, 2025, at SMA Negeri 2 Semarang. This activity began with an opening, followed by speeches. The first speech was from the chairman of the committee, the second speech was from the Student Governor of the Faculty of Agricultural Science and Technology, the final speech was by the principal of SMA Negeri 2 Semarang and continued with a prayer. The next event was a presentation of material regarding plants to be planted, their functions for the environment, and the compost fertilizer to be used, followed by a question and answer session and then a workshop on making mini gardens and compost. Report Activity : https://drive.google.com/file/d/1Ug6407SMtrRuWYHY_3z0R_AiTAL-yTL5/view	Student Executive Board of FSTP April 25, 2025	State Senior High School 2 Semarang 2025
26	Caring Technique	The Care Techniques program is a social service initiative focused on providing assistance to children in orphanages and creating moments of togetherness through various interactive activities. This activity is conducted offline *and* involves various stakeholders involved in the event's implementation. 	Student Executive Board of Faculty of Mathematics and Natural Sciences May 11, 2025	Muawanah Orphanage Semarang

No	Activity	Description	Time	Place
		Report Activity : https://docs.google.com/document/d/1npTyNXPVhBnT_UmC9PtZ5b4RuOHfk8uQ/edit#heading=h.xr33xuhaycl5		
27	Go Green	The description of the Go Green activity with the theme "Small Steps, Big Impact" namely the activity of replanting mangrove forests plays a central role in maintaining ecological balance and environmental sustainability. Planting restoring mangrove forests involves our concern as students for environment and the negative impacts of climate change.  Report Activity :	HMJ Management May 3, 2025	Tambakrejo, Semarang

No	Activity	Description	Time	Place
		https://drive.google.com/file/d/1261sDrBmtfGBhZixVxGsa-Q0c5lSIpHG/view		
28	Socialization and Discussion on Food Aspects	This socialization and discussion activity on food aspects was carried out at SMA Muhammadiyah 1 Semarang on April 15 and 17, 2025. With the theme "Safe Food for Nation's Gold Generation". The description of the implementation of activities at SMA on April 15, 2025, the activity began with the delivery of material on food safety, followed by a discussion related to the material that had been delivered, continued with educational games and announcements of poster competitions from the material that had been delivered as well as socialization of study program introductions and then closing. On April 17, 2025, awards were given to the winners of the best posters followed by a group photo and closing. 	Food Technology Student Association April 15 and 17, 2025	Muhammadiyah 1 High School Semarang 2025

No	Activity	Description	Time	Place
		Report Activity : https://drive.google.com/file/d/1uJxh8aaSvUo0XJgRRL_7HHS1mZ9dgn46/view		
29	Golden Age	This *Golden Age activity* , themed "Blessings: Learning, Creativity, and Charity in a Blessed Ramadan," provides support and attention to orphans during the holy month of Ramadan. It is hoped that this activity will foster happiness and a sense of belonging in a blessed Ramadan atmosphere. This *Golden Age activity* , held in the form of a communal iftar (breaking the fast) with the aim of enhancing the sense of humanity and concern for others among HMJM members. Report Activity : https://docs.google.com/document/d/1QBN4ktbg3St3dU0d-5PZ8-0CKwcCZ5Hp/edit	HMJ Management March 8, 2025	Nurul Mursyid Orphanage
30	Go to Society	This event was held for 2 days, the first day began with an opening that included recitation of the Qur'an, singing the Indonesian national anthem, and welcoming remarks. Followed by a health check on students of MTS & MA Infarul Ghoy, then with a blood donation and the provision of iron tablets to students. The second day began with an opening followed by a pretest in the form of questions inputted using the Quizizz application, followed by the provision of health material based on problems that often occur in adolescents, followed by a post-test after providing the material to measure the extent to which adolescents understand what we have conveyed previously, followed by an evaluation and closing. Report Activity : https://docs.google.com/document/d/1fkn6Cg1n_m5iuo58DMZOKYgK4kg1y_15/edit	HMJ S1 Nursing May 2 -May 10, 2025	MTS & MA Infarul Ghoy

No	Activity	Description	Time	Place
31	Farmers' Meeting	The Farmers' Gathering (Temu Tani) is one of the flagship programs of the Agribusiness Student Association (HMJ Agribisnis). It aims to strengthen relationships between students and farmers while broadening their knowledge of agricultural and agribusiness practices directly in the field. Through this activity, students are invited to engage in dialogue, discussion, and learning with farmers about challenges, opportunities, and innovations applicable to the modern agricultural sector.  Report Activity : https://drive.google.com/file/d/1quYa7fQLTxwL2s-oKoo9kv3x5nTOteqQ/view?usp=sharing	Agribusiness Student Association April 12, 2025	Partner Agricultural Land, Kendal Regency

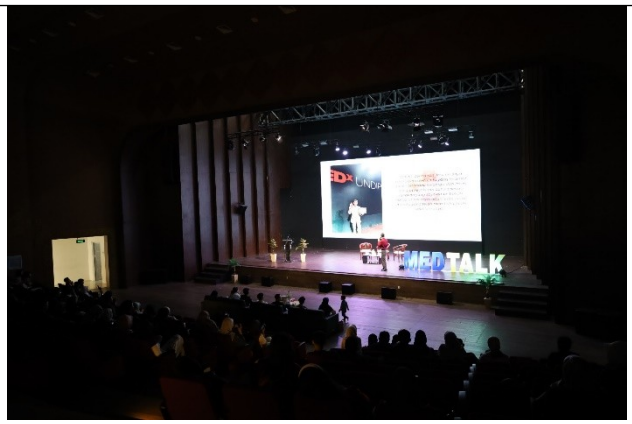
No	Activity	Description	Time	Place
32.	Strategically Develop the Cryosurge Method by Unimus Hospital & Royal Lee Cancer Hospital Guangzhou – China	The collaboration between the University of Muhammadiyah Semarang Hospital (UNIMUS Hospital) and Royal Lee Cancer Hospital, Guangzhou, China, is a strategic step in strengthening the development of health services and cancer therapy research based on cutting-edge technology. This collaboration aims to encourage the improvement of the quality of cancer services through knowledge exchange, research development, and the application of medical innovations that focus on the effectiveness of therapy and patient safety. Through this collaboration, the two institutions are committed to developing three approaches to cancer therapy, namely Cryosurgery, Immunotherapy, and Hydrogen Therapy. All three methods offer a more minimally invasive, innovative, and patient-oriented treatment approach. It is hoped that this international collaboration can strengthen the capacity of UNIMUS Hospital in providing superior oncology services, as well as supporting the progress of cancer therapy research and development in Indonesia.   Report Actifity: https://unimus.ac.id/58222-2/	Guangzhou, China, Jumat, 12 Desember 2025	Royal Lee Cancer Hospita

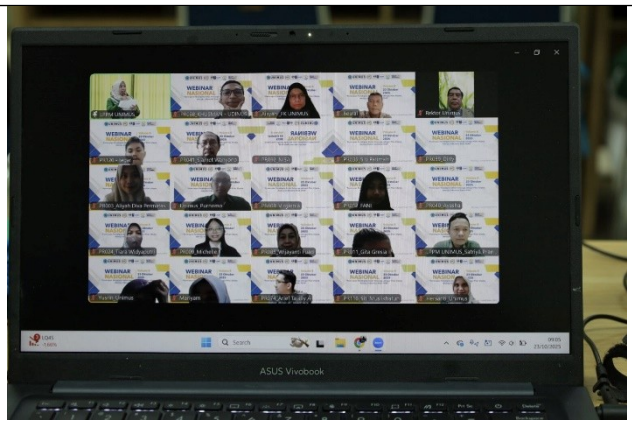
No	Activity	Description	Time	Place
33.	PM-BEM FSTP UNIMUS Team Holds Expo, Displays Diversified Processed Products from Black Rice, Kepok Banana Peel, and Kepok Banana	The PM-BEM FSTP UNIMUS Expo is an activity organized by the Community Empowerment Team of the Student Executive Board of the Faculty of Agricultural Science and Technology (FSTP) University of Muhammadiyah Semarang as a form of implementation of the tridharma of higher education, especially in the field of community service. This activity is a means for students to present the results of the empowerment program that has been implemented while strengthening the synergy between universities and village communities in supporting sustainable development. Held at the Glesungrejo Village Hall on December 4, 2025, this activity involved the village government, supervisors, and students in a collaborative forum aimed at introducing various empowerment programs based on local potential. Through the PM-BEM FSTP UNIMUS Expo, it is hoped that there will be closer cooperation between the academic community and the community in creating innovation, improving the welfare of residents, and encouraging village independence through the use of applicable science and technology.  Report Actifity: https://unimus.ac.id/tim-pm-bem-fstp-unimus-gelar-expo-tampilkan-diversifikasi-olahan-produk-dari-beras-hitam-kulit-pisang-kepok-dan-pisang-kepok/	**PM-BEM FSTP UNIMUS TEAM** 4 December 2025	Glesungrejo Village Hall on

No	Activity	Description	Time	Place
34.	UNIMUS and Reef Check Indonesia Foundation Collaborate to Strengthen Commitment to Coral Reef Conservation and Climate Change Mitigation	The collaboration between the Faculty of Agricultural Science and Technology (FSTP) of the University of Muhammadiyah Semarang (UNIMUS) and the Reef Check Indonesia Foundation is a strategic step in strengthening the synergy between the academic world and environmental conservation institutions. This partnership aims to support the development of education, research, and community service that focuses on the preservation of marine ecosystems and raising awareness of global environmental issues. The signing of the cooperation agreement coupled with a public lecture themed "Coral Reefs and Climate Change" became a forum to expand the horizons of students and academics regarding the importance of coral reef conservation as one of the vital ecosystems affected by climate change. Through this collaboration, FSTP UNIMUS and the Reef Check Indonesia Foundation are committed to encouraging the birth of various educational, research, and community empowerment activities that are oriented towards the sustainability of marine resources and the protection of the coastal environment.  Report Actifity: https://unimus.ac.id/unimus-dan-yayasan-reef-check-indonesia-jalin-kerja-sama-teguhkan-	Faculty of Agricultural Science and Technology (FSTP) November 21, 2025	in room 809 of the Joint Lecture Building (GKB) II

No	Activity	Description	Time	Place
		komitmen-konservasi-terumbu-karang-dan-mitigasi-perubahan-iklim/		
35.	World Oncology Legend "Prof. Xu Kecheng" Lands in Semarang: UNIMUS Hospital Becomes a Center for the Dissemination of Cryosurgery Technology	The General Lecture entitled "Future Oncology: Precision, Integration & Hope" became an important momentum for the University of Muhammadiyah Semarang Hospital (RS UNIMUS) and the University of Muhammadiyah Semarang in strengthening their commitment to the development of innovative and patient-oriented health services. This activity also marks the establishment of strategic cooperation with Xu Kecheng Foundation Indonesia through the signing of a Memorandum of Understanding (MoU) focusing on the development of minimally invasive cancer treatments and integrated oncology services. Through this collaboration, UNIMUS Hospital seeks to present a more precise, effective, and comfortable approach to cancer treatment for patients by utilizing modern technology such as cryosurgery and the concept of integrative care centers. In addition to being a means of knowledge transfer and the latest developments in the field of oncology, this activity also strengthens academic and professional networks between health practitioners, academics, students, and various health institutions in supporting the advancement of cancer services in Indonesia. It is hoped that this collaboration can open up opportunities for research, education, and development of medical technology that can improve the quality of life of patients and provide new hope in cancer treatment in the future.	University of Muhammadiyah Semarang 15 November 2025	UNIMUS Hospital Hall

No	Activity	Description	Time	Place
		 Report Actifity: https://unimus.ac.id/legenda-onkologi-dunia-prof-xu-kecheng-mendarat-di-semarang-rs-unimus-jadi-pusat-penyebaran-teknologi-cryosurgery/		
37.	**Faculty of Medicine UNIMUS Holds National Seminar on Medicophoria 17: A Form of Concern for Mental Health and Self-Development**	The National Seminar on Medicophoria 17 is a scientific activity organized by the Faculty of Medicine, University of Muhammadiyah Semarang (UNIMUS) as a forum for education, inspiration, and self-development for students and the general public. Carrying the theme "Mental Health and Self Development", this seminar aims to increase awareness of the importance of mental health while encouraging the development of self-potential in facing the challenges of academic, social, and professional life in the modern era. As part of the 17th Medicophoria series with the big theme "Transcendence: Beyond the Horizon of Medicophoria", this activity presents speakers from various backgrounds who share insights, experiences, and motivations related to mental health, achievements, and character development. Through this seminar, participants are expected to gain a more comprehensive understanding of the importance of maintaining mental health, building self-resilience, and developing personal capacity to achieve success in a balanced and sustainable manner.	Faculty of Medicine, University of Muhammadiyah Semarang (UNIMUS) 1 November 2025	Ki Narto Sabdo Building, Raden Saleh Cultural Park (TBRS) Semarang

No	Activity	Description	Time	Place
		 report actifity: https://unimus.ac.id/fakultas-kedokteran-unimus-gelar-seminar-nasional-medicophoria-17-wujud-kepedulian-terhadap-kesehatan-mental-dan-pengembangan-diri/		
38.	LPPM Unimus Holds National Webinar to Discuss the Healthy Family Paradigm Towards a Golden Indonesia 2045	This scientific webinar was held as a forum for knowledge exchange, dissemination of research results, and strengthening collaboration between academics, researchers, practitioners, and the community in supporting national health development. With the theme "The Application of the Family Healthy Paradigm as the Main Pillar Towards a Golden Indonesia 2045", this activity highlighted the importance of the role of the family as the main foundation in creating a healthy, productive, and competitive society in order to realize the vision of a Golden Indonesia 2045. Through this forum, participants were invited to understand various challenges and opportunities in the implementation of a healthy family paradigm that includes health, social, and environmental aspects. In addition to being a means of sharing ideas and research results, this webinar also encourages the birth of innovative solutions that can be implemented in people's lives. By strengthening family resilience and quality, it is hoped that a healthy, intelligent, and characterful generation will be formed as the main capital for sustainable nation development.	Institute for Research and Community Service October 23, 2025	Room 810 Joint Lecture Building (GKB) II

No	Activity	Description	Time	Place
		 Report Actifity: https://unimus.ac.id/lppm-unimus-gelar-webinar-nasional-bahas-paradigma-sehat-keluarga-menuju-indonesia-emas-2045/		
39.	Tingkatkan Kompetensi Mahasiswa, FIKKES UNIMUS Gelar Pelatihan Basic Trauma & Cardiac Life Support	This training was held as an effort to improve the competence and readiness of students of the Nurse Professional Study Program of the University of Muhammadiyah Semarang (UNIMUS) in facing the demands of the world of work in the field of health services. This activity is designed to equip students with the knowledge, skills, and practical abilities needed in handling emergency conditions and health services professionally, so that they are able to provide fast, precise, and quality services to the community. Through training involving professional instructors from AGD 118, participants gain learning experiences that are applicable and in accordance with field needs. This activity is also part of FIKKES UNIMUS' commitment to produce graduates who are superior, competent, and ready to compete at the national and international levels. With the provision of additional skills that are relevant to the needs of hospitals and health facilities, it is hoped that graduates will have higher competitiveness and be able to contribute optimally in the world of health services.	Faculty of Nursing and Health Sciences October 20–24, 2025	Joint Lecture Building Hall (GKB) 3

No	Activity	Description	Time	Place
		 report actifity: https://unimus.ac.id/tingkatkan-kompetensi-mahasiswa-fikkes-unimus-gelar-pelatihan-basic-trauma-cardiac-life-support/		
40.	Encouraging Public Awareness to Take Care of Dental Health, FKG and RSGM UNIMUS Hold National Dental Health Month 2025	National Dental Health Month (BKGN) 2025 is an education and health service program organized by the Faculty of Dentistry (FKG) and the Dental and Oral Hospital (RSGM) of the University of Muhammadiyah Semarang (UNIMUS) as a form of commitment to increase public awareness of the importance of maintaining dental and oral health. This activity is a means to expand public access to appropriate dental health information while encouraging the implementation of healthy living behaviors from an early age to improve the overall quality of public health. Through BKGN 2025, FKG and RSGM UNIMUS strive to present various educational, promotive, and preventive programs involving the academic community, health workers, industry partners, professional organizations, and the general public. This activity is not only a momentum to increase public understanding of the importance of dental and oral health, but also strengthens collaboration between educational institutions, health services, the government, and various stakeholders in realizing a healthier, productive, and quality society.	Faculty of Dentistry (FKG) October 14, 2025	in front of the Dean's Building of FKG UNIMUS

No	Activity	Description	Time	Place
		 report actifity: https://unimus.ac.id/dorong-kesadaran-masyarakat-jaga-kesehatan-gigi-fkg-dan-rsgm-unimus-gelar-bulan-kesehatan-gigi-nasional-2025/		
41	The 13th International Conference of the Indonesian Chemical Society (ICICS) 2025	The 13th International Conference of the Indonesian Chemical Society (ICICS) 2025 was held in conjunction with the 20th Joint Conference on Chemistry (JCC) 2025 at the MG Setos Hotel in Semarang. This major event brought together hundreds of academics, researchers, and practitioners of chemistry from around the world. "We recorded 262 participants from 57 universities, featuring 178 oral presentations, 60 poster sessions, and 34 international delegates. This serves as clear evidence of the chemistry community's strong commitment to supporting the sustainable development agenda," he explained. In addition to the main conference sessions, the event hosted chemistry study programs across Indonesia, focusing on curriculum alignment, collaborative research, and the tangible contributions of chemistry.	18 September 2025	MG Setos Hotel

No	Activity	Description	Time	Place
		 Semarang Jadi Pusat Pertemuan Ilmuwan Kimia Dunia, Unimus & UIN Walisongo Sukses Jadi Host ICICS–JCC 2025 - Universitas Muhammadiyah Semarang		
42	Edusaintech 2025	Universitas Muhammadiyah Semarang (Unimus), led by the Faculty of Education and Humanities (FIPH), once again held the 3rd Edusaintech on Wednesday, June 18, 2025, conducted online and broadcast live from Room 809, Joint Lecture Building (GKB) II, Zoba B. Edusaintech 2025 is part of the series of the FIPH International Conference 2025. This event is a tangible manifestation of Unimus' commitment to preparing study programs, especially within FIPH, to increasingly move toward the international level, while also enriching students' insights so that they are not only confined to learning within the campus but also gain a global perspective. Gelar Edusaintech 2025, FIPH Unimus Dorong Pendidikan STEM Berperspektif Internasional dalam menghadapi tantangan Global - Universitas Muhammadiyah Semarang	18 Juni 2025	GKB II FIPH UNIMUS

No	Activity	Description	Time	Place
				
43	Student Mobility	Universitas Muhammadiyah Semarang (UNIMUS) continues to strengthen its global network through an international student exchange program. A total of 11 students, 2 accompanying lecturers from the Faculty of Medicine (FK) UNIMUS, and 1 International Relationship Officer staff member recently participated in the Global Learning Program (GLP) or Student Mobility program at Management & Science University (MSU) in Shah Alam, Malaysia. The week-long visit, which began on September 16, 2025, aimed to broaden academic horizons, compare medical education systems, and foster cultural exchange between the two institutions. Delegasi FK UNIMUS Berpartisipasi dalam Program Student Mobility Internasional di MSU Malaysia – Faculty of Medicine UNIMUS	September 16, 2025	Malaysia

Next is a list of activities in the form of research whose results are published by the public.

No	Year	Service Member	Title	Types of Grants
1	**2023**	**Chairman: Stalis Norma Ethica Member: Ragil Saptaningtyas**	**Fibrinolytic Protease Microcapsule Prototype From Bacillus Tequilensis HSFI-5 Isolate from Sea Cucumber for Development of Antithrombotic Agent https://drive.google.com/file/d/13nbO83-_BXyADUSo53fNSwM69loEbWIi/view?usp=sharing**	**DRTPM Research Grant 2023**
2	**2023**	**Chairman: Yunan Kholifatuddin Member 1: Sya'di Member 2: Agus Suyanto**	**Biosynthesis Optimization, In Situ Modification, and Characterization of Bacterial Cellulose from Coconut Water as a Biodegradable Plastic Material https://drive.google.com/file/d/**	**DRTPM-DAPTV Research**

			171sFlvOhPYnfrgE4RdT2F3F-oRn2JasI/view?usp=sharing	
3	2023	Chairman: Budi Santosa Member 1: Sufiati Bintanah Member 2: Tulus Ariyadi	Fibrinolytic Protease Microcapsule Prototype from Bacillus tequilensis HSFI-5 Isolated from Sea Cucumber for Development of Antithrombotic Agents https://drive.google.com/file/d/17VQgaxzA2jJrFhftjeigV0FCH0B14m-y/view?usp=sharing	DRTPM-DAPTV Research
4	2023	Chairperson: Nurhidajah Member 1: Wahyu Imam Santoso Member 2: Diode Yonata	Utilization of Shrimp Processing By-Products as Natural Flavoring for the Shrimp Fishermen Group in Tambak Rejo Village, Gayamsari District, Semarang City https://drive.google.com/file/d/1PvbcsEKbcR4wcLpGIWZ_QsZrtpNJJ0iO/view?usp=sharing	DRTPM-DAPTV PKM Community Service - Community Partnership Empowerment
5	2023	Chairperson: Indah Manfaati Nur Member 1: Saeful Amri Member 2: Muhammad Saifudin Nur	"SMART VILLAGE" Web-Based Population Service Information System in Kumpulrejo Village, Kendal Regency https://drive.google.com/file/d/1pM-UPjl3_vZNgkfrGehX79KOfqEecWke/view?usp=sharing	DRTPM-DAPTV PKM Community Service - Community Partnership Empowerment
6	2023	Chairman: M. Al Haris Member 1: Prizka Rismawati Arum Member 2: Dannu Purwanto	Smart Village Application to Improve Government Services in Katonsari Village, Demak https://drive.google.com/file/d/1EcWx6dwHeHd0IDGa-kThLzTvoIWNRs6L/view?usp=sharing	DRTPM-DAPTV PKM Community Service - Community Partnership Empowerment
7	2023	Chairperson: Mariyam Member 1: Dera Alfiyanti Member 2: Andi Priyolistiyanto (UPGRIS)	Empowerment of Posyandu Cadres in Optimizing the Utilization of KIA Books by Parents and Cadres Using the Mentorship Learning Method https://drive.google.com/file/d/1G5ELzQVZoscdmtpmSlI-YkK0gHQ6E_Gu/view?usp=sharing	DRTPM-DAPTV PKM Community Service - Community Partnership Empowerment
8	2023	Chairperson: Ulfa Nurullita Member : Zoky Abadi Harahap	IDENTIFICATION OF PHYSICAL, CHEMICAL, AND ERGONOMIC WORK ENVIRONMENTAL HAZARDS IN THE BATIK INDUSTRY https://drive.google.com/file/d/1-GfPayH55zaxu6YXx7_UvUWs2Nnye9f5/view?usp=drive_link	Internal Research Grants
9	2023	Chairman: Didik Sumanto Member : Tri Dewi Kristini	The Contribution of Vector Breeding Sites and Non-Human Food Sources to the Spread of Malaria in Endemic Villages https://drive.google.com/file/d/1mhv5z6TClPZMn1v6xmscOIQh4WSeUlln/view?usp=drive_link	Internal Research Grants
10	2023	Chairman: Iqbal Hidayatsyah Noor	Instilling Islamic Educational Values at the Putra Tahfidz Islamic Boarding School,	Internal Research Grants

		Member : Ali Imron	Muhammadiyah University of Semarang https://drive.google.com/file/d/1XRxipFL6kP2JvEwY3H2W1Ls_LIQ5Jy9r/view?usp=drive_link	
11	2023	Chairman: Muhammad Asin Zubet Member : Meilinda Dewi Astuti Ariyani Lutfitasari Lia Mulyanti	Factors Influencing the Incidence of Pneumonia in Toddlers at the Kedungmundu Community Health Center https://drive.google.com/file/d/1kwzib2KK96UvcjoG_D_rj27qU08RzyR2/view?usp=drive_link	Internal Research Grants
12	2023	Chairperson: Sufiati Bintanah Members : Yuliana Noor Setiawati Ulvie	Improving Knowledge and Assistance in Making Cereals from Functional Food Ingredients for Toddlers https://drive.google.com/file/d/12ny8hx3y1VhtSRU1z7MqpJU2IOEjQ3ec/view?usp=drive_link	Internal Community Service
13	2023	Chairperson: Nurina Dyah Larasaty Alwiyah	Eco-Enzyme Branding Training for Fruit Peels as a Utilization of Organic Waste at the Putri Orphanage https://drive.google.com/file/d/1jYhI15bVjXgypIZSeOX_OAih2ydVUV4u/view?usp=drive_link	Internal Community Service
14	2023	Chairman: Faqih Sulthan Member: Mardiyan Hayati	Increasing Reading and Writing Interest of Students at Muhammadiyah Pucang Gading Middle School, Batursari Village, Mranggen, Demak Through the One Week One Book Program https://drive.google.com/file/d/1VwGoeI2mb0ggrIlmAwjcZ4v5fV1uXCHD/view?usp=drive_link	Internal Community Service
15	2023	Chairman: Satriya Pranata Member 1: Aric Vranada Member 2: Sarinti	Education on Management of Splinting and First Aid for Snake Bites in Gunungsari Tourism Village, Boja https://drive.google.com/file/d/1C70lOvPzI93dXSVtx9Wo8idNL5nmU4pE/view?usp=drive_link	Internal Community Service
16	2024	Chairman: M. Al Haris Member 1: Ali Imron Member 2: Dannu Purwanto	Increasing Renewable Energy Independence in Margohayu Village, Demak Through Environmentally Friendly Technology https://drive.google.com/file/d/1KGOdm_D1qAk0hXXhJxRKXoecUunENXMF/view?usp=sharing	Drtpm-Daptv Research
17	2024	Chairperson: Drg. Dwi Windu Member 1: Kinanti Arti, Mmr Member 2: Drg. Zita Aprillia, Sp.Kga	The Effect Of Saddle-Seat Ergonomic Chairs On The Working Posture Of Young Dentists https://drive.google.com/file/d/1K7Zee6LV9nDkYBsaIRY2c876ZLAPPaTj/view?usp=sharing	Internal Research Grants

18	2024	Chairperson: Dr. Ulfa Nurullita, SKM. M.Kes Member: Zoky Abadi Harahap, SKM, M.Kes	Antioxidant Activity Test of Natural Ingredients Mixture to Suppress Xenobiotics in the Occupational Environment (Study on the Mixture of Ethanol Extract of Secang Wood (Caesalpinia Sappan L) and Red Ginger (Zingiber Officinale Var Rubrum Rhizoma) https://drive.google.com/file/d/1lSJ4_HZ2zMMc_IBoUUAd7GA_wr2sW11C/view?usp=sharing	Internal Research Grants
19	2024	Chairperson: Mifbakhuddin, Skm. M.Kes Members: Dr. Diki Bima Prasetio, SKM, MPH	Awareness of Liquid Waste Management and Environmental Health Risks among Workers in the Batik Craft Industry https://drive.google.com/file/d/1R--6uMc1HVUGGHJ7dKF0fKrwjGYVwVat/view?usp=sharing	Internal Research Grants
20	2024	Chairperson: Nun Maulida Suci Ayomi, Sp, Mp Member: Ali Khamdi, Stp, Mp	Education on the Use of Hydrogel for Planting Ornamental Plants: Building Environmental Awareness at an Early Age https://drive.google.com/file/d/1hAblJap9OZzoT5sLBRofIM5C0SqdO0xM/view?usp=sharing	Internal Community Service Grant
21	2024	Chairperson: Dr. Endang Tri Wahyuni Maharani, M.Pd Members: Dr. Stalis Norma Ethica, S.Si. M.Si.	Utilization of Rambutan (Nephelium Lappaceum L) Fruit Skin and Seeds as a Medicine for Urinary Tract Infections and Eco-Printing Training Using Rambutan Plant Leaves https://drive.google.com/file/d/1MII2ppUmoNSDcqQJAMi279KEF5Kte98h/view?usp=sharing	Internal Community Service Grant
22	2024	Chairperson: Mifbakhuddin, SKM. M.Kes Member: Heni Rusmitasari, SKM, MKM	Empowering Youth in Household Waste Management in Kalikayen Village, Semarang https://drive.google.com/file/d/1MII2ppUmoNSDcqQJAMi279KEF5Kte98h/view?usp=sharing	Internal Community Service Grant
23	2024	Chairman: Dr. Nur Muttaqien Zuhri, S.Pi. M.Si Member: Nurcahyono, SE, MSA Csrs	Empowering Community Partnerships in Utilizing Traditional Herbal Medicine Waste into Sustainable Liquid Organic Fertilizer Products (POC) in the Jamu Gendong Tourism Village, Semarang City https://drive.google.com/file/d/1dqaquN5ECU6iD4NoQz49_tnih6p85soz/view?usp=sharing	Internal Community Service Grant
24	2024	Chairman: Dr. Hema Dewi Anggraheny, M.Kes Member Dr. Dr. Esti Widiasih, Sp.Gk, Mars, Fisqua	Optimizing Support for Prospective Brides and Grooms in Efforts to Prevent Chronic Energy Deficiency (CED) in Pregnant Women https://drive.google.com/file/d/	Internal Community Service Grant

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25	2024	Chairman: Aditya Putra Ramdani, M.Kom Member: Nova Christina Sari, M.Kom	Interactive Learning Innovation: Identifying Types of Waste for Elementary School Children Using Game Media https://drive.google.com/file/d/1hs0-fIUsguTgw2DiBATEwZpa3LXhpd6G/view?usp=sharing	Internal Community Service Grant
26	2024	Chairman: Dr. Firdaus, SM, MM Member: Dr. Agung Nusantara, SE, M.Si	Empowering Women in Recycling Organic and Inorganic Waste in RW 12, Pedurungan Tengah Subdistrict. https://drive.google.com/file/d/1wYMVCevCRmkla0BBp0h30-wDfmiCyHRK/view?usp=sharing	Internal Community Service Grant
27	2024	Chairperson: Arum Ambarsari, S.Pd. M.Pd Members: Dr. Aris Septiono, SH, MH, Ll.M	Socialization of the Utilization of Household Waste for Organic Fertilizer as a Form of Love for the Homeland Through the Dasa Wisma Gajah Biro Activities, RT 10 RW 06, Mangunharjo Village, Tembalang District, Semarang City. https://drive.google.com/file/d/1fhRFWLz_2wFhuEBlwC0oZAHAY6B6B6Lz/view?usp=sharing	Internal Community Service Grant
28	2024	Chairman: Aditano Yani Retawimbi, S.Kel., M.Si Members: Aulia Seto Sandhi Sanova, S.Kel. M.Sc	Increasing Awareness of Semarang Coastal Communities About Waste in Maintaining the Sustainability of Coastal and Marine Areas https://drive.google.com/file/d/1XYe8ScYq0B6HpaUutOjcE7WA3g3dxfr2/view?usp=sharing	Internal Community Service Grant
29	2025	Chairman: Dr. R. Ngt. Amin Samiasih, M.Si.Med Member 1: Dr Yunan Khalifatuddin Sa'adi Stp MSc Member 2: Dr. Dyah Nirmala Arum Janie, Se, M.Si., Ak	Nanoparticle Prototype from Yellow Kepok Banana Peel as Anti-Inflammatory Agent for Diabetes and Hyperlipidemia, Safe for Stomach, In Vitro Test https://sinta.kemdiktisaintek.go.id/authors/profile/6197874/?view=researches#!	Dppm Research Grant
30	2025	Chairman: Muhammad Yusuf, M.Si., Ph.D Member 1: Aditano Yani Retawimbi, S.Kel., M.Si Member 2: Nurul Puspita, MP	Utilization of Sipou Worms as an Indonesian Marine Fisheries Resource to Enhance Umami Flavor Using Microencapsulation Techniques	Dppm Research Grant
31	2025	Chairperson: Shalihat Afifah Dhaningtyas, SKM, M.Kes Member 1: Tri Dewi Kristini, SKM, M.Kes (Epid)	Bioinformatics Analysis of Marine Biota https://drive.google.com/file/d/1jmm5_unz7LLLfAtarwxNd6gnZwWoNtDc/view?usp=sharing	Internal Research Grants
32	2025	Chairperson: Arum Ambarsari, S.Pd. M.Pd	The Effectiveness of Waste Digitalization Management on Changing the Mindset of	Internal Research Grants

		Members: Saka Mahardika Oktav Nugraha, M.Pd	Residents "Waste is Profit" in the Purwosari Community as a Form of Implementing an Environmentally Loving Attitude https://drive.google.com/file/d/1mEJxbjcwXqREc02Oc7e50VLkGBH0eqku/view?usp=sharing	
33	2025	Chairman: Dr. Arief Tajally Adhiatma, Mh.Kes., Member: Dr. Afiana Rohmani, M.Si.Med., Ph.D	Analysis of Child Violence Incident Locations and Their Relationship to Perpetrators in Semarang City (Visum Et Repertum Data Analysis 2021–2023) https://drive.google.com/file/d/1x13elNNgMGY7fy_AgqX6IXQXG41S5Ajh/view?usp=sharing	Internal Research Grants
34	2025	Chairperson: Dr. Apt. Muslimah, S.Si. MM Member: Dr. Swasty, Sp.M	The Influence of Seller Characteristics on the Number of Pseudomonas Aeruginosa in Jumbo Iced Tea in Kedungmundu and Sendangmulyo Sub-districts, Tembalang District, Semarang City https://drive.google.com/file/d/1fTCAStwEfNCexLbrARSFyw_pYTUnb4kv/view?usp=sharing	Community Service Grant from Dppm
35	2025	Chairperson: Nurina Dyah Larasaty, Skm, M.Kes Member 1: Andari Puji Astuti, M.Pd Member 2: Erma Handarsari, M.Pd	Empowering Cadres Through the Healthy Kitchen and Food Eco Swap Programs as an Effort to Prevent Stunting in Tegalsari Village, Karanggede District, Boyolali Regency https://drive.google.com/file/d/1OcY7jjW8jxpyX1Qa96_7tFrr1c3L3Hof/view?usp=sharing	Community Service Grant from Dppm
36	2025	Chairperson: Fitria Fatichatul Hidayah, S.Si. M.Pd Member: Eko Yuliyanto, M.Pd	Green Village Movement: Education and Action on Composting and Waste Sorting Towards an Eco-Friendly Environment https://drive.google.com/file/d/10D0501jMaztXMwzW4X71YhHvTN2BgD98/view?usp=sharing	Internal Community Service Grant
37	2025	Chairperson: Dr. Endang Tri Wahyuni Maharani, M.Pd Member 1: Toeti Rahajoe, Amd Ak.,SKM.,M.Kes, Fisqua	Assistance in Making Ecoenzymes from Fruit and Vegetable Peel Waste and Socialization of Occupational Safety and Health for Mothers https://drive.google.com/file/d/1OkSCk0wojCapkAXSnp5GobZyM1J7y4j1/view?usp=drive_link	Internal Community Service Grant
38	2025	Chairperson: Shalihat Afifah Dhaningtyas, SKM, M.Kes Member 1: Tri Dewi Kristini, SKM, M.Kes (Epid)	Household Waste Management Through Waste Banks https://drive.google.com/file/d/1GrCvdQm98gAFbhwgK4ySjs6WubgKsMoy/view?usp=drive_link	Internal Community Service Grant

39	2025	Chairperson: Fitri Dwi Indarti, ST, M.Ars Member: Dr. Nurrahmi Kartikawati, ST, M.Sc	Saraseha (Healthy Home Awareness) Family-Based Healthy Environment Education Program https://drive.google.com/file/d/10D0501jMaztXMwzW4X71YhHvTN2BgD98/view?usp=drive_link	Internal Community Service Grant
40	2025	Chair : Retno Sri Waryani, ST, MT Members : Martomo, ST, MT	Flood Management Socialization in Sinar Lestari Indah Housing Complex, Kedungmundu Village, Tembalang District, Semarang City https://drive.google.com/file/d/1cU1TQKSFi9YTdxauV1BCSMqvQ2ZZd2ns/view?usp=drive_link	Internal Community Service Grant
41	2025	Chairperson: Ns. Nikmatul Khayati, M.Kep. Member: Dr. Ns. Machmudah, M.Kep. Sp.Kep. Mat	Community-Based Anticipation of Sexual Predators Against Children in the Pilangsari Demak Area https://drive.google.com/file/d/1ADQgsqUAC1OG6H7G5Vk_k5dnRDav-t84/view?usp=drive_link	Internal Community Service Grant
42	2025	Chairperson: Dr. Lasmiatun, SE. M.Si Member: Dr. Hardiwinoto, SE, M.Si	Development of Waste Bank Management to Protect the Environment and Improve the Economic Level of the Community in Sendangguwo Village, Tembalang District, Semarang City. https://drive.google.com/file/d/11D-OQCLM6FidwLpD304YX8TEYZVkNqiU/view?usp=drive_link	Internal Community Service Grant

Description:
(*Please describe sustainability events on your campus. The following is an example of the description. You can describe more related items if needed*.)

Example of events related to environment and sustainability hosted or organized by the University in the academic year 2023-2025.
Total number of sustainability/environment related events in:
2023: 17
2024: 21
2025: 44

A total average per annum over the last 3 years of **82** (e.g. conferences, workshops, awareness raising, practical training, etc.).

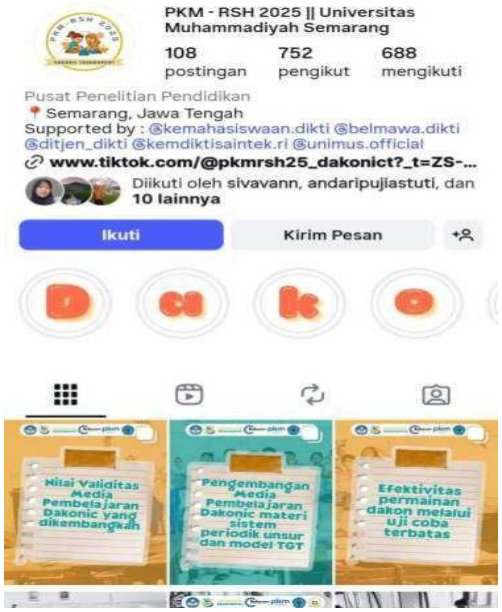
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Evidence
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Semarang, Central Java, Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.12] Number of activities organized by student organizations related to sustainability per year (ED.5)

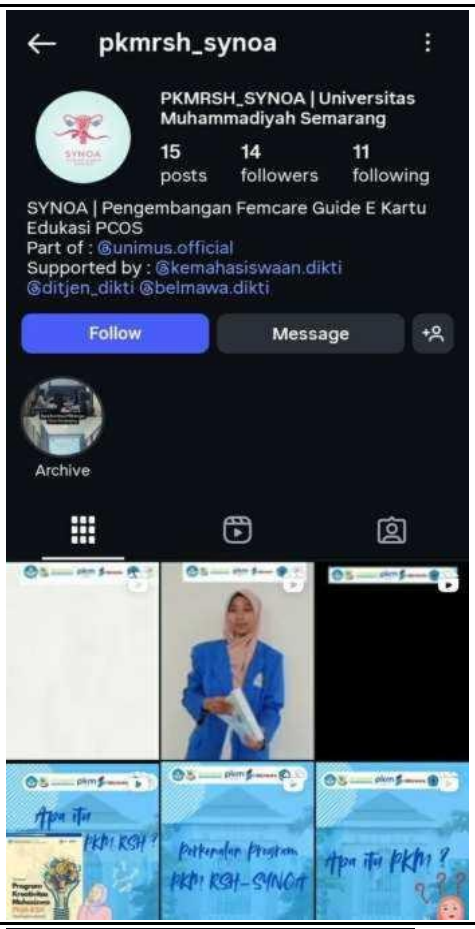
NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
1		The 2025 Student Creativity Program Grant is called DAKONIC. Humanities research activities, Chemistry Education. (Activity Time is one semester). The relevant SDGs theme is SDG 4: Quality Education, as DAKONIC serves as a learning medium to enhance the quality of chemistry education through a creative and culture-based approach. The activity involved a limited trial with 36 students and several teachers. DAKONIC also has 764 followers on Instagram. The PKM-RSH DAKONIC activity has been successfully implemented, yielding real achievements in the following areas: innovation of learning media, Improvement of learning outcomes, Preservation of culture, as well as publication and IPR.
2		The 2025 Student Creativity Program Grant is called EMONG. Interactive technology development activities, S1 Informatics. The activity took place from July to October. The relevant SDG theme is SDG 3: Healthy and prosperous life, specifically improving adolescent mental health through the early detection of emotions, which is also relevant to SDG 9: Industry, Innovation, and Infrastructure, particularly in developing innovative AI-based technology and edge computing for mental health. The activity consisted of 5 students as developers, 6 trial volunteers, a number of BK teachers, and SMK Principals. PKM-KC EMONG has been successfully implemented, yielding real achievements in the following areas: a system prototype capable of detecting 7 basic emotions in real-time, with 2 copyrights and 2 patents currently in the process of registration.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
3		The 2025 Student Creativity Program Grant is called BUBITA. This is a science-based research activity, with a Bachelor's degree in Food Technology. The activity will take place from August to October 2025. The relevant SDG theme is SDG 2: Zero Hunger, which aims to extend the shelf life of traditional foods (pempek). It is also relevant to SDG 12: Responsible Consumption and Production, which aims to replace synthetic preservatives with safe natural preservatives. The activity involved 14 sensory panelists to assess the color, aroma, taste, and texture of pempek, as well as several laboratory staff involved in the testing process. The BUBITA PKM-RE has been successfully implemented, achieving the following milestones: innovation in the use of ketapang seeds as a preservative, demonstrating BUBITA's potential to replace synthetic preservatives, and helping small pempek industries extend shelf life without the need for a freezer.
4		The 2025 Student Creativity Program Grant is called SmartPaddy. Technology application activities, Bachelor of Informatics (Activity Time). Relevant SDG themes include SDG 9: Industry, Innovation, and Infrastructure, which focuses on developing appropriate technological innovations in agriculture, and SDG 2: Zero Hunger, by increasing agricultural productivity through the use of modern technology. Furthermore, it is also relevant to SDG 3, which aims to reduce exposure to hazardous pesticides for farmers. The activity involved five members of the Tani Maju Makmur group. The SmartPaddy PKM-PI activity was successfully implemented, achieving the following milestones: the innovation of an IoT Drone Sprayer Prototype equipped with GPS, a camera, and Return to Home (RTH) features; increased spraying efficiency; and economic strengthening through operational cost savings of up to 30%.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
5		PKM RSH AR Flipbook activities of wayang, Ketoprak, and Earth alms. The relevant SDG theme is SDG 4: Quality Education, as Arjawimath serves as a learning medium to enhance the quality of mathematics education through a creative and culture-based approach. The PKM RSH Humanities social research program team presents an Augmented Reality flipbook innovation based on folk tales such as wayang, ketoprak, and earth alms. This program is designed to improve numeracy literacy and strengthen the enculturation of local culture from an early age through elementary school for local students. The purpose of this program is to increase interest in learning through a cultural and technological approach. Encourage contextual understanding of literacy and numeracy. Instill local cultural values from an early age through traditional stories. The hope is that the younger generation is literate and skilled in numeracy and loves their cultural roots..
6		PKM PM in the form of Flipbook Garudaku - Results of the PKM PM Program. This activity was conducted from June to November 2025. Augmented Reality Flipbook media that makes learning Pancasila more lively, interactive, and fun for Indonesian children. The program aims to create interactive media, implement Garudaku in schools to improve Literacy and Numeracy

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
7		The 2025 Student Creativity Program Grant is called SPINOVA. The activity applies science and technology. The activity will run from July to September 2025. The relevant SDG theme is SDG 9: Industry, Innovation, and Infrastructure, applying appropriate technology to improve production process efficiency. It is also relevant to SDG 8: Decent Work and Economic Growth through increased productivity and welfare of MSME partners. The activity involved participants in outreach and training. The SPINOVA PKM-PI activity has been successfully implemented, with the following achievements: the successful design, manufacture, and testing of the SPINOVA Oil Draining Spinner innovation; the registration of IPR for the spinner; time and labor efficiency in the production process; and improved product quality that can enhance competitiveness.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
8		The 2025 Student Creativity Program Grant is called WASTA. The activity focuses on empirical research analyzing the influence of Islamic values. The activity will run from July to October 2025. The relevant SDG theme is SDG 4: Quality Education, which aims to improve financial literacy and moral awareness. It is also relevant to SDG 1: No Poverty, as it prevents students from getting entangled in debt and financial crises. It is also relevant to SDG 16: Peace, Justice, and Strong Institutions by promoting values- and evidence-based policies. The activity involved 153 people, who completed questionnaires and participated in in-depth interviews with nine students. The WASTA PKM-RSH activity was successfully implemented, with the following achievements: Islamic value-based psycho-financial innovation to prevent online loans (pinjol), increasing student awareness of the risks of online loans (pinjol), and ongoing education through social media and printed materials.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
9		SYNOA 2025 Student Creativity Program Grant Digital educational media development activities Activities will be held from July to September 2025. Relevant SDG themes include SDG 3: Healthy and Prosperous Living, which focuses on improving the reproductive health of young women. This is also relevant to SDG 5: Gender Equality, as it empowers women through reproductive health education. Activities will involve 10 young women as respondents for the needs analysis and 50 young women as respondents for the effectiveness test. SYNOA's PKM-RSH activities have been successfully implemented, with the following achievements: Digital educational e-cards on PCOS prevention, interactive website innovation, improving reproductive health literacy, early detection of PCOS through understanding symptoms and risk factors, and affordable educational media for vulnerable populations (female students).
10		The 2025 Student Creativity Program Grant is titled "Digitally Life of Sangkuriang." Inclusive learning media development activities. Activities will be implemented from July to October 2025. Relevant SDG themes include SDG 9: Industry, Innovation, and Infrastructure, as well as the implementation of augmented reality technology in education. This is also relevant to SDG 10: Reducing Inequality by Meeting the Educational Needs of Students with Special Needs. Activities will involve two autistic students for a limited trial, 15 autistic students for a large-scale implementation, five teachers, and two experts as expert validation. The Digitally Life of Sangkuriang PKM-RSH activity has been successfully implemented, with the following achievements: interactive digital media innovations that provide a tangible impact on increasing learning engagement and multisensory reinforcement.

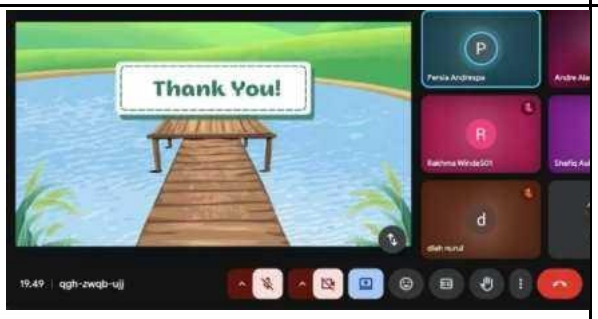
NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
11		The planting of 300 mangrove trees as an environmental concern was carried out by TLM students in collaboration with Scoutberta and IMATELKI on May 2025. **(SDG 13,14,15) Impact:** The action of planting mangrove trees on the coast has had a real impact on the environment and society. This activity has successfully restored damaged coastal ecosystems, reduced abrasion, and increased carbon sequestration, thereby helping to mitigate climate change. Overall, mangrove planting is a simple yet far-reaching innovation that contributes to achieving the Sustainable Development Goals, particularly SDG 13 (Addressing Climate Change), SDG 14 (Conserving Ocean Ecosystems), and SDG 15 (Protecting Terrestrial Ecosystems).
12		*Fun With Chemistry 2025: An activity focused on science education and environmental awareness. The activity was held on June 28, 2025. The relevant SDG themes were SDG 4: Quality Education, which promotes access to fun and meaningful learning for children, and SDG 13: Climate Action, which fosters awareness of environmental care and the adoption of sustainable lifestyles from an early age. This activity was attended by 120 children who participated in outreach activities, simple chemistry experiments, and environmental awareness actions. The Fun With Chemistry activity was successfully implemented with the following achievements: ● Children were introduced to basic chemistry concepts in everyday life through simple and fun experiments.● This activity increased children's curiosity and interest in science learning from an early age.● Participants gained awareness of the importance of maintaining cleanliness and adopting environmentally friendly behaviors. ● This program fosters a creative, environmentally conscious young generation with a passion for exploring science in their daily lives.*

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
13		2025 Community Partnership Program This activity focuses on community service through environmentally friendly education and creativity. This activity was held on Saturday, July 5, 2025. The relevant SDG themes were SDG 4: Quality Education and SDG 12: Sustainable Consumption and Production, with the aim of raising awareness of the importance of environmentally conscious and sustainability-oriented creative education. This activity was attended by 39 children and 15 students from Himadikmia, who served as organizers and facilitators. The Community Partnership Program was successfully implemented with the following achievements: ● Children were taught to make eco-print clothing using natural materials from leaves and flowers found in the surrounding area. ● This activity increased the children's creativity, environmental awareness, and confidence in their creative endeavors. ● For students, this activity served as a means to practice teaching skills, foster social awareness, and strengthen campus-community relationships. ● This program contributes to building real collaboration between the world of education and society to support sustainable practices in everyday life.
14		Guest Lecture "People's Schools: Breaking the Chain of Family Poverty from an Agribusiness Perspective" 2025. This activity focused on community education and empowerment through the agribusiness sector. This activity was held on September 29, 2025. The relevant SDG themes were SDG 1: No Poverty, SDG 3: Good Health and Well-being, SDG 4: Quality Education, and SDG 8: Decent Work and Economic Growth, emphasizing the importance of education and family economic empowerment in improving community welfare. This activity was attended by 53 participants, consisting of students from the Agribusiness Study Program. The Guest Lecture "People's Schools: Breaking the Chain of Family Poverty from an Agribusiness Perspective" was successfully implemented with the following achievements: ● Students gained a deep understanding of the concept of People's Schools as a community-based alternative education model. ● This activity provided insight into how agribusiness education and training can be a means to improve family welfare and reduce

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		poverty. ● Through this activity, students are encouraged to play an active role in community development through educational and entrepreneurial approaches in the agribusiness sector. ● This program also strengthens the university's commitment to supporting the achievement of the Sustainable Development Goals (SDGs) through education and social innovation.
15	 	Environmental Action "Green the Coast, Save the Future" 2025. This activity focuses on environmental conservation and the protection of coastal ecosystems. This activity was held on June 15, 2025. The relevant SDG themes are SDG 13: Climate Action, SDG 14: Marine Ecosystems (Life Below Water), and SDG 15: Terrestrial Ecosystems (Life on Land), which emphasize the importance of environmental conservation and climate change mitigation through concrete actions in coastal areas. This activity was attended by 49 participants from HIMAGRI (Agribusiness Student Association). The "Green the Coast, Save the Future" Environmental Action activity was successfully implemented, with the following achievements: ● Planting aquatic mangrove trees in inundated areas serves to stabilize the soil, prevent abrasion, and provide a natural habitat for various marine life. ● Planting sea pine trees in higher, drier areas serves as a windbreak and additional protection against coastal erosion. ● This activity raises student and community awareness of the importance of maintaining the balance of coastal ecosystems. ● This action also strengthens collaboration between students, the community, and the government in supporting sustainable environmental conservation for a green and sustainable future.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
16	 	Nature Conservation and a Healthy Environment 2025; Activities focused on mangrove planting and coastal ecosystem preservation. The activities were held on May 3, 2025. The relevant SDG themes were SDG 13: Climate Change Management, SDG 14: Marine Ecosystems, and SDG 15: Terrestrial Ecosystems, which emphasize the importance of maintaining ecosystem balance and increasing environmental resilience to the impacts of climate change. The activities were attended by 300 participants from the S.Tr TLM Student Association. The Nature Conservation and Healthy Environment activities were successfully implemented, with the following achievements: ● Mangrove tree planting on the coast had a tangible impact on the environment and surrounding communities. ● This activity successfully restored damaged coastal ecosystems, reduced abrasion, and increased carbon sequestration to help mitigate climate change. ● The active participation of students and the community strengthened collective awareness of the importance of preserving nature. ● Overall, this mangrove planting action is a simple yet impactful innovation that contributes to the achievement of the Sustainable Development Goals, especially SDG 13, SDG 14, and SDG 15.
17		ONE ACTION WITH A MILLION MEANINGS, REAL SERVICE TO OTHERS Activity Description: This activity is a form of community service through concrete environmental conservation actions by planting mangrove trees in coastal areas. The program was implemented on Sunday, June 15, 2025, with the involvement of the Diploma III Medical Laboratory Technology (TLM) Student Association as the organizer. Linkage to SDGs: This activity supports the achievement of SDG 13 (Climate Action), SDG 14 (Life Below Water), and SDG 15 (Life on Land). The goal is to raise awareness of the importance of environmental conservation, maintain the balance of coastal ecosystems, and encourage community

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		participation in concrete actions to mitigate climate change. Participants: The activity was attended by 300 participants, comprising students, representatives from coastal communities, and local government officials. Activity Achievements: This program has had a positive impact on the environment and surrounding communities. Planting mangrove trees has been proven to help prevent abrasion, protect beaches from large waves, and absorb carbon from the atmosphere. In addition to the ecological benefits, this activity also creates new economic opportunities for local residents through mangrove tourism and the processing of mangrove products into various goods, including food, beverages, and handicrafts. Through collaboration among various parties, this activity has successfully promoted environmental awareness and strengthened the spirit of mutual cooperation in preserving the natural environment.
18		Empowering the Srikandi Women Farmers Group in Improving Family Economics Activity Description: This activity is a form of community service through counseling and assistance to the Srikandi Women Farmers Group (KWT) in an effort to improve family economic capabilities. The program was held on Saturday, August 23, 2025, by the Bachelor of Accounting Study Program, Faculty of Economics and Business, Muhammadiyah University Semarang (UNIMUS). Relevance to SDGs: This activity supports several Sustainable Development Goals (SDGs), namely: ● SDG 5: Gender Equality; ● SDG 2: Zero Hunger; ● SDG 1: No Poverty; ● SDG 8: Decent Work and Economic Growth; ● SDG 17: Partnerships for the Goals; The objective of the activity is to improve women's economic capacity through family financial management, small business development, and strengthening partnerships between the community, academics, and the government. Participants: The activity was attended by 15 members of KWT Srikandi and 4 students from the Accounting Undergraduate Program, Who Served as assistants. Activity Achievements: The outreach activity went well and provided tangible benefits to the participants. KWT members gained knowledge about household financial

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		management, basic business record-keeping, and marketing strategies for agricultural products. Through this activity, women in rural areas became more empowered to improve their welfare. Activity Achievements: The outreach program went well and provided tangible benefits to participants. KWT members gained knowledge in household financial management, simple business record-keeping, and agricultural product marketing strategies. Through this activity, rural women became more empowered to improve their families' well-being and contribute to local economic growth. Furthermore, this activity strengthened collaboration between universities and the community in support of achieving the Sustainable Development Goals (SDGs) at the local level.
19	 	Regular Open Discussion (DIRUTE): Demak Tidal Floods – Between Ecological Disaster and Policy. Activity Description: This activity demonstrates student awareness of environmental issues and public policy through a Regular Open Discussion (DIRUTE) with the theme "Demak Tidal Floods: Between Ecological Disaster and Policy." The activity took place on Friday, August 2, 2025, and was organized by the Public Administration Student Association (HIMA AKSI) 2024/2025 as an educational and reflective forum for students and the community to understand ecological issues from a policy and governance perspective. Linkage to the SDGs: This activity supports several Sustainable Development Goals (SDGs), namely: ● SDG 11: Sustainable Cities and Communities. ● SDG 13: Climate Action. ● SDG 6: Clean Water and Sanitation. ● SDG 16: Peace, Justice, and Strong Institutions. The purpose of this discussion was to raise critical awareness about the impacts of ecological disasters caused by tidal flooding on coastal communities, highlight challenges in public policy, and encourage the participation of young people in formulating solutions through cross-sector collaboration. Participants: The activity was attended by 26 participants, comprising students, academics, and community representatives who are concerned with environmental issues and public policy. Activity Achievements: The

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		discussion was dynamic and generated various constructive ideas related to coastal management in Demak. Participants understood that the tidal flooding phenomenon is not just a natural disaster, but also an issue of governance and public policy. Through this activity, students are encouraged to play an active role in building ecological awareness and advocating for policies oriented towards environmental sustainability and the well-being of coastal communities.
20		Accounting Training System (ATRAS) – HIMA AKSI 2024/2025 Period Activity Description: This activity is an accounting training program organized by the Accounting Student Association (HIMA AKSI) on June 14–15, 2025. This training aims to improve participants' competencies in basic accounting, financial record-keeping, and business analysis, particularly for students and Micro, Small, and Medium Enterprises (MSMEs). This program is designed to support the improvement of human resources' technical and professional skills in the accounting field. Linkage to SDGs: ATRAS activities support several Sustainable Development Goals (SDGs), namely: ● SDG 4: Quality Education; ● SDG 8: Decent Work and Economic Growth; ● SDG 17: Partnerships for the Goals The objective of this activity is to enhance the capacity of participants in sound and professional financial management, while also strengthening collaboration among academics, students, and the local economic community. Participants: The activity was attended by students and MSMEs, with the support of trainers from accounting lecturers and practitioners. Activity Achievements: The training ran well and provided tangible benefits to participants. Through practical accounting learning activities, accounting simulations, and an introduction to simple accounting software, participants gain a practical understanding of the importance of transparent and efficient financial governance. This program also supports the improvement of vocational education, strengthening local economic competitiveness, and serving as a concrete example of a strategic partnership between academia and the community in achieving the SDGs at the local level.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
21	 	National Seminar (SEMNAS) 2025 – "Improving the Competence of Young Accountants in the Era of Technology and Innovation". Event Description: This National Seminar (SEMNAS) aims to improve the competence and insight of accounting students in facing technological developments and innovation in the digital age. The seminar was held on Sunday, May 25, 2025, by the Accounting Student Association (HIMA AKSI) as a contribution to improving the quality of education and professionalism of young accountants in Indonesia. Linkage to SDGs:This event supports several Sustainable Development Goals (SDGs), namely: ● SDG 4: Quality Education; ● SDG 8: Decent Work and Economic Growth; ● SDG 17: Partnerships for the Goals . The aim of this seminar is to provide access to quality education through presentations from academics and practitioners, strengthen professional skills in accounting, and build partnerships between students, educational institutions, and the world of work. Participants: The event was attended by accounting students from various universities, lecturers, as well as practitioners and professionals in the fields of accounting and finance.
22		Capacity Building 2025 – “Empowering Excellence, Strengthening Bonds: Advancing Together for a Progressive Accounting Future” Activity Description: This activity is a capacity building outreach and training program aimed at strengthening competency, synergy, and collaboration among academics in realizing a progressive accounting future. The program was held on May 2–3, 2025, by the Undergraduate Accounting Program, Faculty of Economics and Business, Universitas Muhammadiyah Semarang (UNIMUS). Through this activity, participants were encouraged to build a spirit of togetherness, strengthen professional capacity, and enhance the quality of teamwork.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		**Keterkaitan dengan SDGs:** **SDG 17:** (*Partnerships for the Goals*); **SDG 4:** (*Quality Education*); S**DG 8:** (*Decent Work and Economic Growth*) Activity Achievements: The activity proceeded smoothly and interactively, positively impacting individual and team capacity building. Participants received materials on self-development, organizational management, and professional development in accounting. Furthermore, this activity strengthened inter-institutional and inter-individual relationships, created a collaborative academic environment, and supported the achievement of sustainable development goals in education and the economy.
23		**Tax Brevet Training Batch 4–7** **Activity Description:** This program is a vocational training initiative in the field of taxation, aimed at enhancing students' technical competencies in understanding the national taxation system and its application in professional practice. The training was conducted from May to July 2025, organized by the **Undergraduate Accounting Study Program** in collaboration with the **Tax Center of the Faculty of Economics and Business, Universitas Muhammadiyah Semarang (UNIMUS)**. This program serves as a platform for students to obtain certification and gain practical experience in tax report preparation, administrative compliance, and analysis of the latest tax regulations. **Relevance to the SDGs:** This activity supports several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4: Quality Education** ● **SDG 8: Decent Work and Economic Growth** ● **SDG 16: Peace, Justice, and Strong Institutions**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		● **SDG 17: Partnerships for the Goals** The purpose of this activity is to develop competent human resources in the field of taxation, strengthen transparent financial governance, and promote partnerships between academia and the professional sector in building a sustainable and integrity-based economy. **Participants:** The training was attended by **140 undergraduate students of the Accounting Study Program**, accompanied by lecturers and experienced tax practitioners. **Activity Outcomes:** The **Tax Brevet Training Batch 4–7** was successfully implemented and provided significant benefits to participants. Students gained a comprehensive understanding of the taxation system, technical skills in tax report preparation, as well as insights into ethics and compliance in tax practices. This activity also strengthened the professionalism of prospective accountants and expanded collaboration networks between higher education institutions and taxation bodies. In addition to improving individual competencies, this training supports the realization of accountable and fair financial governance, contributing to sustainable development.
24	   	**PENJURA (Journal Writing and Internship Preparation Training) HIMA AKSI 2024/2025** **Activity Description:** The **PENJURA (Journal Writing and Internship Preparation Training)** is a student competency development program organized by the **Accounting Student Association (HIMA AKSI)** on **April 19–20, 2025**. This activity is designed to provide students with essential knowledge and preparation in writing scientific papers and facing the professional work environment, especially for those who are about to undertake field internships. Through this training, participants received direct guidance from lecturers and practitioners in writing academic journals, as well as directions

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		related to professional ethics and work readiness in the fields of accounting and taxation. **Relevance to the SDGs:** The PENJURA activity supports several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4: Quality Education** ● **SDG 8: Decent Work and Economic Growth** ● **SDG 17: Partnerships for the Goals** This training contributes to improving the quality of education and students' work readiness through applied academic activities, while also strengthening collaboration between higher education institutions and external partners to create a sustainable educational ecosystem. **Participants:** The program was attended by active undergraduate students of the **Accounting Study Program, Universitas Muhammadiyah Semarang**, with high enthusiasm, particularly from students preparing to begin their internship period. **Activity Outcomes:** **PENJURA 2025** was successfully implemented and had a positive impact on the academic and professional competency development of students. Participants gained a deeper understanding of academic journal writing following scholarly standards, as well as practical knowledge related to workplace preparation and ethics in the professional industry. This activity served as a platform for shaping excellent, adaptive, and work-ready students, while also strengthening partnerships among **HIMA AKSI**, academic supervisors, and institutional partners.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
25	   	**Study Tour Company (SOPAN) "Get The New Experience and Build Up Your Knowledge"** **Activity Description:** The **Study Tour Company (SOPAN)** activity was organized by the **Accounting Student Association (HIMA AKSI)** on **April 16, 2025**, as an out-of-class learning program aimed at broadening students' insights and experiences in the industrial world. Through this institutional visit, students were directly introduced to professional practices within companies, gained an understanding of business processes and accounting systems, and learned about the application of innovation and technology in real work environments. This activity serves as part of contextual learning implementation to foster professionalism, enhance competencies, and strengthen partnerships between academia and industry. **Relevance to the SDGs:** This activity supports several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4: Quality Education** ● **SDG 8: Decent Work and Economic Growth** ● **SDG 9: Industry, Innovation, and Infrastructure** ● **SDG 17: Partnerships for the Goals** Through the SOPAN program, students gain access to practical and applied learning experiences in the industrial sector, supporting the development of vocational skills and work readiness. Additionally, the collaboration between the Accounting Study Program and partner institutions demonstrates the implementation of **SDG 17**, strengthening partnerships to promote sustainable development. **Participants:** The activity was attended by approximately **100 undergraduate students** from the **Accounting Study Program, Universitas Muhammadiyah Semarang**, who actively participated in the

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		company visits and discussions with industry representatives. **Activity Outcomes:** The **Study Tour Company (SOPAN)** program had a positive impact on expanding students' understanding of accounting practices and industrial management. Participants gained firsthand experience with financial systems, corporate innovations, and professional work ethics in real business settings. Through this activity, students not only broadened their academic knowledge but also strengthened collaboration networks among **HIMA AKSI**, the **Accounting Study Program**, and **industry partners**, contributing to the creation of competent and globally competitive graduates.
26	   	**SEPEDA AKU (Accounting Seminar and Leadership Training) "Dare to Lead: Inspiring The Next Generation of Changemakers"** **Activity Description:** The **SEPEDA AKU (Accounting Seminar and Leadership Training)** was organized by the **Accounting Student Association (HIMA AKSI)** on **March 9, 2025**, as part of efforts to foster leadership, professionalism, and self-development among accounting students. Through this activity, participants gained insights into the role of young accountants as *changemakers* in the digital economy era, emphasizing the importance of integrity, responsibility, and analytical skills in the accounting profession. This event combined inspirational seminars and basic leadership training, aiming to cultivate collaboration, leadership spirit, and student readiness to contribute to sustainable development. **Relevance to the SDGs:** This activity contributes to several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4: Quality Education** ● **SDG 8: Decent Work and Economic Growth**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		● **SDG 17: Partnerships for the Goals** In the context of **SDG 4**, SEPEDA AKU supports quality improvement in accounting education through training and leadership development aligned with professional demands. Its contribution to **SDG 8** is reflected in the enhancement of students' professional competencies and readiness to enter a productive and decent workforce. Meanwhile, **SDG 17** is manifested through collaboration among **HIMA AKSI**, the **Accounting Study Program**, and **external partners**, strengthening partnerships toward achieving sustainable development goals. **Participants:** The activity was attended by **undergraduate students of the Accounting Study Program, Universitas Muhammadiyah Semarang**, including active members of **HIMA AKSI** and new students participating in the leadership formation process. **Activity Outcomes:** Through **SEPEDA AKU**, participants improved their knowledge, critical thinking skills, and awareness of the vital role of young accountants in promoting transparent and integrity-based economic governance. In addition, the activity successfully fostered leadership spirit, social responsibility, and collaboration skills — essential qualities for nurturing a generation of professional and visionary accountants.
27		**Field Work Study (KKL) Regular Class of 2022** **Activity Description:** The **Field Work Study (KKL)** program was organized by the **Undergraduate Accounting Study Program, Faculty of Economics and Business, Universitas Muhammadiyah Semarang (FEB UNIMUS)** from **January 20 to 24, 2025**. This activity is part of the **experiential learning process**, designed to provide students with direct exposure to real practices in the industrial, business, and accounting sectors. Through visits to various institutions and companies across **Bali Island**, students gained valuable insights into production processes, marketing strategies, branding, and the use of

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		digital technologies such as **e-commerce** in modern business operations. **Relevance to the SDGs:** This activity contributes to several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4: Quality Education** ● **SDG 8: Decent Work and Economic Growth** ● **SDG 9: Industry, Innovation, and Infrastructure** ● **SDG 17: Partnerships for the Goals** Aligned with **SDG 4**, this activity ensures that students acquire relevant knowledge and skills aligned with industry and workplace demands. In the context of **SDG 8**, the KKL program equips students with professional competencies and readiness to enter a productive workforce while contributing to economic growth. Consistent with **SDG 9**, the program strengthens students' understanding of industrial innovation and the application of digital technologies such as e-commerce as part of modern business transformation. Meanwhile, **SDG 17** is realized through partnerships between higher education institutions and industry, facilitating knowledge exchange and capacity building across sectors. **Participants:** The program was attended by **95 students** from the **Undergraduate Accounting Study Program, Class of 2022 (Regular Class)**. **Activity Outcomes:** Through the **Field Work Study (KKL)**, students gained an in-depth understanding of real-world industrial and business practices, including marketing strategies, production management, branding, and the implementation of e-commerce systems. Additionally, the activity enhanced students' analytical abilities, professional communication skills, and collaborative spirit in linking academic theory with workplace practice.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
28		**Zahir Software Training and Certification Program for the 2023 Cohort** **Activity Description:** The **Zahir Software Training and Certification Program** was organized by the **Undergraduate Accounting Study Program, Faculty of Economics and Business, Universitas Muhammadiyah Semarang (FEB UNIMUS)** in collaboration with **PT Zahir International**, as an implementation of technology-based and industry-oriented learning. This activity focused on enhancing students' skills in using **Zahir accounting software**, which is widely applied in professional business environments. Through this training, students gained practical experience relevant to industry needs while strengthening their competencies in digital accounting. The certification exam, as part of the program, aimed to provide formal recognition of professional competence, thereby improving graduates' competitiveness in the job market. **Relevance to the SDGs:** This activity aligns with several **Sustainable Development Goals (SDGs)**, namely: ● **SDG 4 (Quality Education):** Improving the quality of vocational education and ensuring access to industry-relevant learning opportunities. ● **SDG 8 (Decent Work and Economic Growth):** Promoting skill enhancement and work productivity through technology-based training. ● **SDG 9 (Industry, Innovation, and Infrastructure):** Encouraging innovation in digital accounting systems through the application of industrial software. ● **SDG 17 (Partnerships for the Goals):** Establishing tangible collaboration between higher education institutions and the private sector for the development of education and future accounting professionalism. **Expected Outcomes:** This program is expected not only to strengthen

PERJANJIAN KERJASAMA

ANTARA
PT ZAHIR INTERNASIONAL

DENGAN
FAKULTAS EKONOMI DAN BISNIS
UNIVERSITAS MUHAMMADIYAH SEMARANG

TENTANG
ZAHIR GOES TO CAMPUS

Nomor : 024 / SP-AC / ZHR-JKT / September / 2023

Pada hari ini **Rabu** tanggal **Dua Puluh** bulan **September** tahun **2023** yang bertanda tangan dibawah ini :

Dr. Muhamad Ismail, S.E., S.Kom., M.M : CEO PT. Zahir Internasional, dalam hal ini bertindak untuk atas nama PT Zahir Internasional, berkedudukan Jl. Kemang Selatan 1D No. 20A, Jakarta Selatan,12730, selanjutnya disebut sebagai **PIHAK PERTAMA**

Dr. Haeruddin, M.T : Dekan Fakultas Ekonomi dan Bisnis Universitas Muhammadiyah Semarang dalam hal ini bertindak untuk dan atas nama Fakultas Ekonomi dan Bisnis Universitas Muhammadiyah Semarang, berkedudukan di Jalan Kedungmundu No.18, Kedungmundu, Tembalang, Kota Semarang 50273, selanjutnya disebut sebagai **PIHAK KEDUA**.

PIHAK PERTAMA dan PIHAK KEDUA secara bersama-sama disebut **"PARA PIHAK"** terlebih dahulu menerangkan hal-hal sebagai berikut:

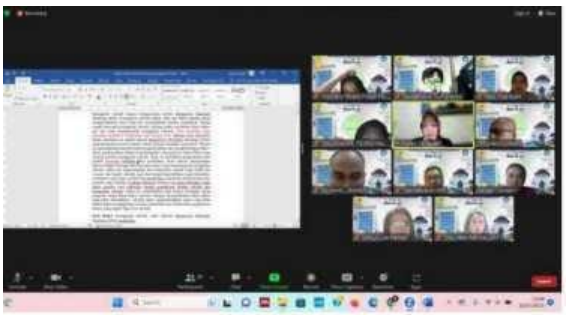
a. **PIHAK PERTAMA**, adalah perusahaan yang bergerak di bidang Teknologi informasi yang mengembangkan dan memiliki hak cipta atas paket perangkat lunak ZAHIR ACCOUNTING.
b. **PIHAK KEDUA**, adalah Fakultas Ekonomi dan Bisnis Universitas Muhammadiyah Semarang yang menyelenggarakan laboratorium Komputer dengan menggunakan Zahir Accounting Software.
c. Bahwa PARA PIHAK dengan dilandasi itikad baik, telah bersepakat menjalin kerjasama dengan tema Zahir Goes To Campus di Kampus Fakultas Ekonomi dan Bisnis Universitas Muhammadiyah Semarang.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		academic–industry relations but also to serve as a strategic step in producing accounting graduates who are **competitive, adaptive, and capable of contributing to sustainable development**.
29		**OBE Curriculum Finalization Workshop – Undergraduate Accounting Study Program** Type of Activity: Workshop Organizer: Undergraduate Accounting Study Program Date: November 20, 2024 Related SDGs: ● SDG 4: Quality Education ● SDG 8: Decent Work and Economic Growth ● SDG 17: Partnerships for the Goals Number of Participants: 23 lecturers and academic staff Activity Description: The OBE Curriculum Finalization Workshop was conducted by the Undergraduate Accounting Study Program as part of efforts to improve the quality of education through the development of a curriculum based on Outcome-Based Education (OBE) and the Merdeka Belajar Kampus Merdeka (MBKM) framework. The workshop involved reviewing Program Learning Outcomes (CPL), Course Learning Outcomes (CPMK), and Sub-CPMK to ensure the curriculum aligns more closely with current industry needs. The outcome of this workshop was a finalized and adaptive curriculum that responds to technological and industrial developments, supporting the creation of globally competitive graduates. This activity contributes to: ● SDG 4 (Quality Education) through the enhancement of educational quality and relevance; ● SDG 8 (Decent Work and Economic Growth) by preparing competent graduates who meet labor market demands; and ● SDG 17 (Partnerships for the Goals) through collaboration among lecturers,

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		faculty members, and stakeholders in strengthening a sustainable curriculum framework.
30		**FGD on Implementation of Collaboration with the Undergraduate Accounting Study Program FEB Universitas Muhammadiyah Semarang (UNIMUS)** **Type of Activity:** Focus Group Discussion (FGD) **Organizer:** Undergraduate Accounting Study Program **Date of Implementation:** May 6, 2024 **Related SDGs:** ● SDG 4: Quality Education ● SDG 8: Decent Work and Economic Growth ● SDG 17: Partnerships for the Goals **Activity Description:** This Focus Group Discussion is part of the implementation of collaborative efforts between the Undergraduate Accounting Study Program of Universitas Muhammadiyah Semarang (UNIMUS) and Universitas Islam Bandung (UNISBA). The main goal of the activity is to strengthen synergy between higher education institutions in enhancing the quality of education and developing curriculum based on Outcome-Based Education (OBE) and the Merdeka Belajar Kampus Merdeka (MBKM) initiative. The activity supports SDG 4 by improving the quality of learning and ensuring that curriculum aligns with industry needs; SDG 8 by producing competent graduates who are ready to enter the workforce; and SDG 17 through institutional collaboration in fulfilling the four missions of higher education. Through this activity, the Accounting Study Program commits to building strong academic networks to improve educational quality and contribute to sustainable development in the accounting field.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
31		**PEKERTI Training (Program for Enhancing Fundamental Instructional Techniques) – Batch 17** **Type of Activity:** Training **Organizer:** Universitas Negeri Semarang (UNNES) **Date of Implementation:** May 22 – 26, 2023 **Related SDGs:** ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 9:** Industry, Innovation, and Infrastructure ● **SDG 17:** Partnerships for the Goals **Number of Participants:** 1 person **Activity Description:** The PEKERTI Training Batch 17 is a professional development program designed to enhance lecturers' competencies in implementing innovative learning methods such as the Case Method and Team-Based Project. This training equips lecturers with pedagogical and professional skills to deliver high-quality education aligned with industry needs. The activity also supports capacity building through professional certification in accounting, auditing, and Islamic finance, as well as technology training such as Odoo V.16. It forms part of the **Merdeka Campus Competition Program (PKKM) 2023**, strengthening partnerships among universities and related institutions. Overall, this program contributes to improving the quality of education, strengthening educators' competencies, fostering innovation in technology-based learning, and expanding strategic collaboration networks.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
32		**Applied Approach (AA) Training – Batch 10** **Type of Activity:** Training **Organizer:** Universitas Pasundan **Date of Implementation:** July 10–15, 2023 **Related SDGs:** ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 9:** Industry, Innovation, and Infrastructure ● **SDG 17:** Partnerships for the Goals **Number of Participants:** 8 people **Activity Description:** The Applied Approach (AA) Training Batch 10 is a professional development program aimed at enhancing lecturers' pedagogical and professional competencies in implementing innovative learning methods such as the Case Method and Team-Based Project. The program strengthens the ability of educators to create active, relevant, and high-quality learning processes. Through this training, participants also gain knowledge in developing technology-based learning innovations and improving professional capacities aligned with industry and labor market demands. This activity supports the continuous improvement of higher education quality and fosters collaboration among universities to implement the **Merdeka Belajar Kampus Merdeka (MBKM)** framework. This program contributes directly to **SDG 4 (Quality Education)** through the enhancement of teaching competencies, **SDG 8 (Decent Work and Economic Growth)** by preparing educators to meet industrial needs, **SDG 9 (Industry, Innovation, and Infrastructure)** through technological adoption in learning, and **SDG 17 (Partnerships for the Goals)** by promoting inter-institutional collaboration in higher education.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
33	   9. Penutupan 	**Halal Supervisor Occupational Certification** **Type of Activity:** Training **Organizer:** Halal Institute **Date of Implementation:** July 29–30, 2023 **Related SDGs:** ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 9:** Industry, Innovation, and Infrastructure ● **SDG 17:** Partnerships for the Goals **Number of Participants:** 1 person **Activity Description:** The **Halal Supervisor Occupational Certification** is a professional training program designed to enhance competencies in the halal industry sector. This activity provides comprehensive knowledge on halal product assurance systems, operational standards, and certification governance in accordance with government regulations. Through this training, participants gain technical expertise as certified halal supervisors capable of ensuring production processes comply with Islamic principles, supporting the development of the national halal economy, and strengthening industrial competitiveness. The activity contributes to **SDG 4 (Quality Education)** through professional upskilling and certification, **SDG 8 (Decent Work and Economic Growth)** by expanding employment opportunities in the halal industry, **SDG 9 (Industry, Innovation, and Infrastructure)** through the application of modern halal industry standards, and **SDG 17 (Partnerships for the Goals)** by fostering collaboration between training institutions and related agencies to strengthen Indonesia's halal ecosystem.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
34		**Associate Wealth Planner – Syariah (AWP-S) Training** **Type of Activity:** Training **Organizer:** Indonesian Institute of Accountants (IAI) – Central Java Region **Date of Implementation:** August 26–27, 2023 **Related SDGs:** ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 9:** Industry, Innovation, and Infrastructure ● **SDG 17:** Partnerships for the Goals **Number of Activities:** 3 **Activity Description:** The **Associate Wealth Planner – Syariah (AWP-S) Training** aims to enhance the professional competencies of lecturers and practitioners in Islamic financial planning. This activity supports the improvement of educational quality and relevance to industry needs (**SDG 4 & SDG 8**). Through technology- and entrepreneurship-based training, participants are encouraged to develop innovative approaches in modern Islamic finance (**SDG 9**). Moreover, this program strengthens strategic partnerships among higher education institutions, professional associations, and business sectors (**SDG 17**) to foster sustainable synergy in advancing the quality of education and Islamic economic development.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
35	       	**Community Service Program (PEMSU): "Enhancing the Value Added of Agricultural Commodities, Focusing on Eggplant, in Gunungpati District, Semarang"** **Type of Activity:** Community Outreach / Extension Program **Organizer:** Bachelor of Accounting Study Program, Faculty of Economics and Business, Universitas Muhammadiyah Semarang (UNIMUS) **Date of Implementation:** August 10, 2023 **Related SDGs:** ● **SDG 2:** Zero Hunger ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 9:** Industry, Innovation, and Infrastructure ● **SDG 17:** Partnerships for the Goals **Number of Participants:** 32 **Activity Description and Impact:** This community service activity aimed to increase the **value added of agricultural products**, particularly eggplants, through training in business analysis, product processing, and digital marketing (**SDG 8**). The program demonstrated significant profit potential from eggplant-based products such as eggplant chips and enhanced local entrepreneurial skills. In line with **SDG 2 (Zero Hunger)**, the activity supported food security by educating participants on agricultural cultivation and value-added product development. Regarding **SDG 9**, participants were introduced to product innovation, packaging, and digital marketing to strengthen competitiveness and support Semarang City's urban farming initiatives. The activity also embodied **SDG 17 (Partnerships for the Goals)** through strategic collaboration between the Accounting Study Program, the Semarang City Agriculture Office, the Food Technology Department, and the Accounting Student Association (HIMA AKSI).

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		Additionally, this activity served as a practical application of accounting knowledge within the community, aligning with the study program's mission to promote **quality and sustainable education (SDG 4).**
36		**Practitioner Lecture (Tax Management Course)** **Type of Activity:** Lecture **Organizer:** Bachelor of Accounting Study Program, Faculty of Economics and Business, Universitas Muhammadiyah Semarang (UNIMUS) **Date of Implementation:** September 27 – November 1, 2023 **Related SDGs:** ● **SDG 4:** Quality Education ● **SDG 8:** Decent Work and Economic Growth ● **SDG 17:** Partnerships for the Goals **Number of Participants:** – **Activity Description and Impact:** This activity aimed to enhance the quality of higher education through collaboration between lecturers and professional practitioners in the field of taxation (**SDG 4**). Students gained both theoretical insights and practical knowledge directly from industry professionals, making the learning process more applicable and relevant. The program helped bridge the gap between academia and industry (**SDG 8**) by equipping students with competencies aligned with real-world professional demands, preparing them to enter the workforce productively and competitively. Furthermore, this initiative strengthened partnerships between higher education institutions and the business/industrial sector (**SDG 17**), particularly through collaboration with six Public Accounting Firms and two Islamic banking institutions. This activity also served as part of the implementation and documentation of the **Second-Year Merdeka Learning Campus Competition (PKKM) Program 2023**, providing a

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		foundation for future policy development and sustainable academic–industry cooperation.
37		**SEMENTUM (General Health Seminar)** **Type of Activity:** Seminar **Organizer:** Student Executive Board (BEM), Faculty of Dentistry, Universitas Muhammadiyah Semarang **Date of Implementation:** June 8, 2024 **Related SDG:** ● **SDG 2:** Protecting Children from Tobacco Industry Interference **Activity Description:** The **SEMENTUM (General Health Seminar)** organized by the Student Executive Board of the Faculty of Dentistry, Universitas Muhammadiyah Semarang, on **June 8, 2024**, aimed to educate the public about **periodontal tissues** and the **dangers of smoking on oral health**. Through this seminar, participants gained essential knowledge about the harmful effects of tobacco use and the importance of maintaining oral and dental health from an early age. This program contributes to **SDG 2: Protecting Children from Tobacco Industry Interference** by promoting educational initiatives designed to protect children and communities from the harmful influence of the tobacco industry and to encourage healthy living practices.
38		**FKG Peduli Sesama (Faculty of Dentistry Care for Others)** **Type of Activity:** Community Service **Organizer:** Student Executive Board (BEM), Faculty of Dentistry, Universitas Muhammadiyah Semarang **Date of Implementation:** August 9, 2024 **Related SDG:** ● **SDG 2:** Spreading Compassion and Building Togetherness **Activity Description:** The **FKG Peduli Sesama (Faculty of Dentistry Care for Others)** program, organized by the Student Executive Board of the Faculty of Dentistry,

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		Universitas Muhammadiyah Semarang, on **August 9, 2024**, was a social service activity aimed at fostering empathy and togetherness through educational and social actions within the community. During the event, participants received guidance on **maintaining good oral hygiene** while also distributing aid to members of a local orphanage as a tangible form of social care. This program contributes to **SDG 2: Spreading Compassion and Building Togetherness**, by promoting solidarity, strengthening social awareness, and enhancing community well-being.
39		**DENTSCHOOL** **The DENTSCHOOL program, organized by the Student Executive Board (BEM) of the Faculty of Dentistry, Universitas Muhammadiyah Semarang, on July 14, 2025, was an educational outreach activity with the theme "Healthy Teeth in the Millennial Era: Trend or Necessity," attended by 34 participants. This activity aimed to educate the public about the importance of maintaining oral and dental health from an early age and to raise awareness of healthy lifestyles in the modern era. In addition, this program served as a platform to introduce the Faculty of Dentistry of UNIMUS to the broader community. The program contributes to SDG 3: Good Health and Well-Being by improving oral and dental health literacy among the younger generation.**
40		**Caninus** **The Caninus program, organized by the Student Executive Board (BEM) of the Faculty of Dentistry, Universitas Muhammadiyah Semarang, on May 3, June 21, and July 19, 2025, was a community service activity with the theme "Fun Dental Care for Children with Special Needs," attended by more than 20 participants. This activity aimed to provide education on the importance of maintaining oral and dental health in an interactive and enjoyable way for children in orphanages, especially those with special needs. Through this program, children were encouraged to understand the importance of early dental care to maintain their health and self-confidence. The program contributes to SDG**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		3: Good Health and Well-Being by focusing on improving oral and dental health among vulnerable groups.
41		**FKG Tamasya** **The FKG Tamasya program, organized by the Student Executive Board (BEM) of the Faculty of Dentistry, Universitas Muhammadiyah Semarang, on July 27, 2025, was a free dental and oral health check-up activity attended by more than 100 participants. This activity aimed to provide benefits to the community through direct dental and oral health services, while also offering opportunities for free consultations and examinations. Through this program, the community gained a better understanding of the importance of maintaining oral and dental health. The program contributes to SDG 3: Good Health and Well-Being by improving public access to and awareness of basic healthcare services.**
42		**Basic Trauma & Cardiac Life Support (BTCLS)** **The Basic Trauma & Cardiac Life Support (BTCLS) training, organized by AGD 118 on October 20–24, 2025, was attended by 165 participants. This activity aimed to provide knowledge and skills in emergency management related to trauma and cardiac arrest for healthcare professionals. Through this training, participants gained competencies in life-saving actions and received BTCLS certification valid for four years. The program contributes to SDG 3: Good Health and Well-Being by enhancing the capacity of medical personnel to provide prompt and effective first aid.**
43		**Informatic Study Club** **The Informatic Study Club, organized by the Informatics Student Association on May 13, 2025, was a training program attended by 25 participants. This activity aimed to improve the quality of education and enhance students' competencies in programming through structured learning and hands-on practice.**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		Through this program, participants were able to sharpen their technical skills and broaden their knowledge in information technology development. The program contributes to SDG 4: Quality Education by supporting the improvement of learning quality and digital skills among students.
44		**External Comparative Study (UMS & UNEJ)** **The External Comparative Study (UMS & UNEJ), organized by the Informatics Student Association on May 4 and May 17, 2025, was an academic visit attended by 30 participants. This activity aimed to improve the quality of human resources within the student association through the exchange of knowledge, experiences, and best practices in student organization management. Through this program, participants gained new insights to develop work programs and strengthen collaboration between universities. The program contributes to SDG 4: Quality Education by promoting capacity building and improving the quality of student organizations in both academic and non-academic fields.**
45		**Informatic Education (FOR EDU)** **The Informatic Education (FOR EDU) program, organized by the Informatics Student Association on May 14–15, 2025, was a training event attended by 50 participants. This activity aimed to enhance students' digital skills through training focused on mastering information technology and developing competencies in the field of informatics. Through this program, participants gained practical learning experiences to support their readiness in facing the challenges of a technology-driven workforce. The program contributes to SDG 4: Quality Education by supporting the enhancement of digital capacity and skills among the younger generation.**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
46		**Human Resource Development for Young Coaches in Semarang City** **The Human Resource Development for Young Coaches in Semarang City program, organized by the Semarang City Taekwondo Association on November 12, 2024, was a training event attended by 140 participants. This activity aimed to enhance the competence and capacity of young taekwondo coaches to enable them to train using effective, professional methods that meet the standards of high-performance sports coaching. Through this program, participants gained technical knowledge and skills that support the improvement of athlete training quality at the regional level. The program contributes to SDG 4: Quality Education by developing human resource quality in the field of education and sports training.**
47	 	**Public Lecture: Global Strategic Agricultural Issues — Competition and the Competitiveness of Indonesian Food Products in the European Union Region** **The Public Lecture on Global Strategic Agricultural Issues — Competition and the Competitiveness of Indonesian Food Products in the European Union Region, organized by the Food Technology Study Program of Universitas Muhammadiyah Semarang in collaboration with FIND4S (Erasmus) and the Embassy of the Republic of Indonesia in Brussels, Belgium, was held on October 13, 2025, and attended by 170 participants. This activity aimed to enhance the knowledge of students and lecturers regarding global food trade dynamics and strategies to improve the competitiveness of Indonesian food products in the European market. Through this event, participants gained a better understanding of strategic issues in sustainable agriculture and the strengthening of an internationalized curriculum. The program contributes to SDG 4 (Quality Education), SDG 7 (Affordable and Clean Energy), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action) through the integration of global knowledge into higher education and**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		the promotion of sustainable practices in the food sector.
48		**International Conference on Food Sustainability of Data Science (ICD4SS)** **The International Conference on Food Sustainability of Data Science (ICD4SS), organized by the Food Technology Study Program of Universitas Muhammadiyah Semarang in collaboration with FIND4S (Erasmus), was held on October 14, 2025, as an international seminar attended by 200 participants. This activity aimed to enhance a sustainability-based curriculum by adopting educational and research systems implemented in the European Union. Through this program, participants gained global insights into the application of data science to support food sustainability and the development of environmentally friendly technological innovations. The program contributes to SDG 4 (Quality Education) and SDG 12 (Responsible Consumption and Production) by strengthening academic capacity and integrating sustainability principles into higher education practices.**
49		**Guest Lecture on Yoso Farm (Environmental Chemistry Course)** **The Guest Lecture on Yoso Farm, organized by the Chemistry Education Study Program of Universitas Muhammadiyah Semarang on December 19, 2024, was attended by 10 participants. This activity aimed to provide students with an understanding of the application of a sustainable lifestyle in rural environments through case studies and practical activities at Yoso Farm. Through this program, students learned directly about the concept of sustainability in environmental management, as well as in nature-friendly consumption and production practices. The program contributes to SDG 11 (Sustainable Cities and Communities), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action) by**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
	 Kandang Ayam Kastari 	**fostering awareness and sustainable behavior among students.**
50	 **Based Camp "Sekolah Air Hujan"** 	**Guest Lecture on Bany Bening Rainwater School (Environmental Chemistry Course)** **The Guest Lecture on Bany Bening Rainwater School, organized by the Chemistry Education Study Program of Universitas Muhammadiyah Semarang on December 19, 2024, was attended by 10 participants. This activity aimed to provide students with an understanding of the utilization of rainwater as an alternative source of clean water and the importance of maintaining the sustainability of water resources. Through this program, students learned directly about rainwater harvesting technology and sustainable water management at the community level. The program contributes to SDG 6 (Clean Water and Sanitation) by fostering awareness of the importance of water conservation and the implementation of environmentally friendly water management systems.**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
51	 	**13th International Conference of the Indonesian Chemical Society (ICICS) 2025 in conjunction with 20th Joint Conference on Chemistry (JCC) 2025** **The 13th International Conference of the Indonesian Chemical Society (ICICS) 2025, held in conjunction with the 20th Joint Conference on Chemistry (JCC) 2025, was organized by the Chemistry Education Study Program of Universitas Muhammadiyah Semarang on October 18, 2025, as an international seminar attended by 262 participants. This event served as a platform for academic and research collaboration in the field of chemistry to support the development of sustainable scientific knowledge. Through this seminar, participants gained insights into environmentally friendly chemical technology innovations and strategies for implementing clean energy within the context of sustainable development. The program contributes to SDG 7 (Affordable and Clean Energy), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action) by strengthening institutional capabilities and capacities to consistently contribute to achieving the Sustainable Development Goals.**
52	 	**Serap Aspirasi and Closed Hearing with the Head of Study Program** **The Serap Aspirasi and Closed Hearing with the Head of Study Program, organized by the Information Technology Student Association on April 21, 2025, was a discussion forum attended by 42 participants. This forum served as a platform for students to present the results of aspiration gathering and engage in a limited discussion with the Head of Study Program to formulate concrete solutions and improvement steps for the future. This activity reflects the spirit of transparency, fairness, and active participation in educational governance, in line with SDG 16 – Peace, Justice, and Strong Institutions: Promoting transparency, justice,**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		and participatory and peaceful institutional governance.
53		**VEO3 Video Challenge** **The VEO3 Video Challenge, organized by the Student Association of Information Technology (HMTI) UNIMUS from July 7 to September 11, 2025, was a competition participated in by 52 contestants. This program aimed to enhance digital literacy, creativity, and awareness of the responsible use of technology and artificial intelligence (AI). Through this activity, participants were encouraged to develop innovative ideas through educational video projects in the field of technology. The program aligns with SDG 4 – Quality Education, by improving students' digital literacy and creativity in technology, and supports SDG 9 – Industry, Innovation, and Infrastructure, through the application of technology-based innovation.**
54		**International Expert Lecture (Global Classroom)** **The International Expert Lecture (Global Classroom) with the theme "The Role of Universities in Indonesia in Encouraging the Implementation of Solar Energy as a Future Environmentally Friendly Energy" was organized by UMPSA in collaboration with the Electrical Engineering Study Program (PSRE), Faculty of Engineering and Computer Science (FTIK) UNIMUS, on July 23, 2024, in the form of a seminar attended by 191 participants. This program is part of the international academic collaboration between PSTE UNIMUS and the Faculty of Electrical and Electronics Engineering Technology, Universiti Malaysia Pahang Al Sultan Abdullah (UMPSA). The activity supports SDG 7: Affordable and Clean Energy by enhancing understanding of the importance of developing and implementing solar energy as a sustainable and environmentally friendly energy source for the future.** **https://drive.google.com/file/d/1AVWu_KJ7AtWZWXlXXN1-04h009NS_hA_/view**

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
55		**Sustainable Development of Electric Energy in the Society 5.0 Era** **The Seminar on Sustainable Electric Energy Development in Society 5.0 was organized by the Electrical Engineering Study Program on November 9, 2023, with a total of 100 participants. This seminar discussed the research direction and uniqueness of the Study Program in supporting the development of sustainable energy in the era of digitalization and automation. This activity contributes to SDG 7: Affordable and Clean Energy by encouraging the utilization of technology and innovation to realize an efficient, environmentally friendly, and sustainable energy system.** **https://drive.google.com/open?id=1b-WDTVgeOXtm-uW_9QPYhvvXFfHWgu8S**
56		**TECHVOLUTION: Shaping the Future of Engineering and Technology in the Virtual World** **Activity Description:** **The TECHVOLUTION:** Shaping the Future of Engineering and Technology in the Virtual World event was organized by the Faculty of Engineering and Computer Science (FTIK), UNIMUS on December 5, 2024, in the form of a seminar attended by 100 participants. This activity aimed to provide students with insights into future technology trends, enhance their understanding of virtual world concepts and their applications across various sectors, and establish international collaboration networks among UNIMUS, Dongseo University, IIUM, and UMM. Furthermore, the event sought to inspire students to prepare themselves for challenges and opportunities in the digital era. This program supports SDG 4: Quality Education by promoting technological literacy and strengthening academic capacity in engineering and digital innovation.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
57	  	**CenDEKIA 5.0 Learning Center in Jamus Village** **Activity Description:** The **CenDEKIA 5.0 Learning Center (Cemerlang, Digital, Economy, Health, and Environment)** program is an initiative by **PPK ORMAWA IMM AR Fachruddin**, implemented in **Jamus Village, Mranggen District, Demak Regency, Central Java**. This program focuses on improving education, digital literacy, entrepreneurship based on agricultural products, public health, and environmental management. It was developed as a solution to address several key challenges faced by the village community, such as low education levels, underperforming BUMDes and youth organizations, poor post-harvest management of corn (the main agricultural product), and limited awareness of health and sanitation practices. Through a **participatory and collaborative approach**, the program involves partnerships with local government, educational institutions, and relevant agencies. Activities include basic literacy and numeracy training, graphic design and videography workshops, agricultural product processing, TOGA (family medicinal plants) cultivation, community health services, first aid (PPGD) training, household waste management, and the establishment of waste banks in each hamlet. The program aims to establish **five community learning centers** for skill development, produce value-added corn-based MSME products, publish scientific articles, and create educational digital content. This initiative contributes to several **Sustainable Development Goals (SDGs):** ● **SDG 4: Quality Education** – by enhancing literacy and community skills. ● **SDG 8: Decent Work and Economic Growth** – through MSME development based on agricultural innovation. ● **SDG 12: Responsible Consumption and Production** – by promoting waste management and product innovation. ● **SDG 3: Good Health and Well-being** – through health education, first aid training, and community health initiatives. ● **SDG 17: Partnerships for the Goals** – by fostering collaboration among multiple stakeholders. Overall, the **CenDEKIA 5.0 Learning Center** serves as a model for community empowerment through

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		education, innovation, and sustainability — supporting the realization of Indonesia's **Golden Generation 2045** vision.
58	     	**Climate Village Program in Purwosari Village** **Activity Description:** **Purwosari Village**, located in **Sayung District, Demak Regency**, covers an area of approximately **3.93 km²** with a population of **6,277 residents** spread across five hamlets. Being situated on the northern coastal area, the village frequently experiences *tidal flooding (rob)* as a result of climate change. These floods have disrupted local food security due to the submersion of agricultural land, rendering it unproductive. Additionally, ineffective waste management exacerbates environmental problems, even though household waste has the potential to be transformed into valuable products such as **ecobricks, eco-enzyme, and organic compost** that can serve as planting media. To address these challenges, the **PPK ORMAWA IMM Asy-Syifa Team** initiated the **Climate Village Program (Kampung Iklim)**. The program introduces the **"Ruang Iklim" (Climate Space)** — an educational hub for environmental awareness integrated with two main initiatives: **digital-based waste management** and the **establishment of community food resilience gardens**. Furthermore, the formation of the **Purwosari Climate Action Institute (LAIP)** aims to ensure program sustainability and independence. The program's overarching goal is to enhance community awareness and active participation in combating climate change. The specific objectives include: 1. Establishing the **Ruang Iklim** as a community learning center on climate resilience. 2. Increasing public knowledge of **climate village management**. 3. Developing community skills in **waste management** to reduce waste accumulation in Purwosari Village. This initiative supports the implementation of Indonesia's **Asta Cita Presidential Agenda**, particularly points **2** and **8**, and aligns with the **Sustainable Development Goals (SDGs)**: ● **SDG 12: Responsible Consumption and Production**,

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		● **SDG 13: Climate Action**, and ● **SDG 15: Life on Land**. Expected outputs include the establishment of **LAIP (Purwosari Climate Action Institute)** as the main coordinating body, along with several tangible results: ● Reflection book *"Langkah Kecil untuk Bumi Besar"* (Small Steps for a Big Earth), ● Digital publications on YouTube, Instagram, and TikTok (Unimus Official and IMM Asy-Syifa), ● Posters, copyrighted educational materials, and creative video content, ● Real products: organic compost, eco-enzyme, ecobricks, handicrafts, and food security gardens, ● A scientific publication in a **SINTA 5-indexed journal**, ● Media coverage in **Suara Muhammadiyah** and **Kompas**, ● Educational module *"Jaga Iklim, Jaga Kampung: Langkah Bijak Warga Purwosari"*, ● User guide *"Kenali PUSAKA: Aplikasi Cerdas Warga Sadar Iklim"*, and ● Development of the **PUSAKA website (Purwosari Sadar Iklim dan Alam)**. The program engages **three community segments** — children and youth (≥20 participants), women's groups (≥20), and men (≥20). It will also establish one **Digital Waste Bank** using the **PUSAKA application**, and at least **five community food gardens** to promote food security. Institutional strengthening ensures long-term sustainability, supported by partnerships with the **Purwosari Village Government**, **Demak Environmental Agency (DLH)**, **Sahabat Pecinta Alam Demak (PADe)**, **MDMC Central Java**, **Lazismu Central Java**, and the **Muhammadiyah Council for Environmental Affairs (PWM Central Java)**. Overall, the **Climate Village Program in Purwosari** embodies a holistic, participatory approach to climate resilience, environmental education, and sustainable community development.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
59	  	**Ngargosari Village Empowerment Program: Enhancing the Value of Red Guava through Innovation and Digitalization** **Overview:** Ngargosari Village, located in Sukorejo District, Kendal Regency, is known for its abundant **red guava production**. However, challenges such as post-harvest waste (2.8 tons per cycle), low selling price (Rp 1,000/kg), and lack of digital marketing limit its economic potential. The **PPK Ormawa HIMATIKA team** initiated a community empowerment program focusing on **innovation, digitalization, and capacity building** through three main activities: 1. **Product Processing Training** – turning red guava and its waste into value-added products. 2. **GOAL (Go-Digital)** – training in digital marketing, packaging design, and e-commerce utilization. 3. **MANSI (Management and Accounting)** – strengthening BUMDes capacity in business and financial management. **Objectives:** ● Increase the **economic value** of red guava through product diversification. ● Enhance **digital literacy** and e-commerce use for local product marketing. ● Improve **farmers' income** and business sustainability. **Expected Outputs:** ● **Reflection Book** (*"Harapan dari Lereng Ngargosari"*). ● **Processed product prototypes**, **scientific articles**, and **media publications**. ● **Training Module** (*"Red Guava and Its By-Products Processing Module"*). ● **Poster, video documentation**, and **PIRT certification**. ● Strengthened **BUMDes** and sustained community entrepreneurship. **Implementation:** Activities include participatory workshops, digital marketing mentoring, and business management training, supported by local government and cross-sector partners. Evaluation is carried out through monitoring, pre-post tests, and reflection sessions. **SDG Contributions:** ● **SDG 1 – No Poverty:** increasing farmers' income.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		• **SDG 8 – Decent Work and Economic Growth:** creating sustainable local businesses. • **SDG 9 – Industry, Innovation, and Infrastructure:** promoting digital transformation in rural areas. • **SDG 12 – Responsible Consumption and Production:** reducing agricultural waste through innovation. • **SDG 17 – Partnerships for the Goals:** fostering collaboration among academia, government, and communities.
60	 	**Women's School of Kandangrejo: Empowering Women through Red Onion Innovation** Kandangrejo Village in Grobogan Regency is the main producer of red onions, contributing **21,460 quintals (54.35%)** of the total production in Klambu District. However, most of the harvest is sold raw at **Rp19,000–Rp21,000/kg**, without further processing or digital marketing, resulting in untapped economic potential. Through the **Women's School Program by PPK Ormawa IMM Ahmad Dahlan**, this initiative focuses on **training in makeup artistry** and **red onion product processing**, combined with **entrepreneurship and digital marketing education**. The program empowers women aged 18–45 to enhance their **income, economic independence, and digital literacy**. The outcomes include **certified processed products, training modules, reflection books, video documentation, and scientific publications**, implemented through the **six pillars of empowerment** (educate, engage, empower, entrepreneur, expand, establish). This program supports: • **SDG 5:** Gender Equality — empowering women in rural communities. • **SDG 8:** Decent Work and Economic Growth — fostering local entrepreneurship. • **SDG 12:** Responsible Consumption and Production — promoting sustainable product utilization. The Women's School of Kandangrejo exemplifies how local potential can be transformed into a sustainable, women-driven economic force.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		
61	 	**Akashatani Program: Empowering Young Farmers in Ringinarum Village** Ringinarum Village in Kendal Regency covers an area of 255 hectares, with 163 hectares of productive farmland. About 84% of its 4,773 residents work as farmers, primarily cultivating corn and red onions. Despite its agricultural potential, the village still faces challenges such as limited application of appropriate technology, underutilized agricultural waste, and a lack of digital marketing knowledge. To address these issues, the **PPK Ormawa Himatepa UNIMUS** team initiated the **Akashatani Program**, which empowers young farmers through the **Sanggar Tani** institution and the **3RUM initiatives**—**Surya Narum**, **Bidarum**, and **Pasarum**. The program focuses on developing farmer capacity in technology, management, and entrepreneurship. Surya Narum introduces solar dryer technology for efficient post-harvest processing; Bidarum trains farmers in compost and Trichoderma-based organic pesticide production; and Pasarum enhances product innovation and marketing through corn yogurt and red onion paste as value-added agricultural products. This initiative aims to establish a sustainable and adaptive young farmer institution, promote eco-friendly agricultural practices, and strengthen entrepreneurial skills among local farmers.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
		Through training, mentoring, and the implementation of appropriate technology, the program seeks to create a more productive, environmentally responsible, and economically empowered farming community. The Akashatani Program aligns with **SDG 2 (Zero Hunger)** by supporting food security through sustainable agriculture, **SDG 8 (Decent Work and Economic Growth)** by encouraging agripreneurship and job creation, and **SDG 12 (Responsible Consumption and Production)** by promoting efficient resource management and waste utilization.
62		**Mawas Warga Plus: Building a Sustainable Healthy Community in Plamongansari** Plamongansari Village, located in Pedurungan District, Semarang City, has strong demographic and social potential with a balanced age distribution from children to the elderly. In 2024, the **HIMAPERSA UNIMUS** implemented the *Mawas Warga* program, focusing on improving elderly health through nutrition education, stroke prevention, healthy home guidance, and the establishment of an elderly park. The program successfully increased elderly nutrition knowledge by 78%, family first aid capability by 63%, and healthy home conditions by 74%, while community participation in health activities rose from 20% to 47%. However, evaluation revealed ongoing issues such as low utilization of the elderly park due to limited activities, low digital literacy hindering health information use, and minimal involvement of youth in preventive health actions. Additionally, local data showed a 15.6% anemia prevalence among adolescents and rising cases of hypertension and diabetes, increasing the risk of non-communicable diseases. To address these challenges, HIMAPERSA developed the **"Mawas Warga Plus"** program integrated with the **"Satu Rumah Satu Caregiver (SARAGA)"** innovation. The program aims to empower families by training one caregiver per household with basic health care, nutrition, and emergency response skills. It also promotes food security through the **Kebun Guyub** community garden and revitalizes the elderly park as an educational and productive space.

NO	DOCUMENTATION	ACTIVITIES AND DESCRIPTION
63		Using a collaborative and community-based approach, the program partners with the Health Office, Agriculture Office, PMI, Cita Sehat Clinic, LazisMu, and the Plamongansari local government. It also introduces a **digital health recording platform, SiCerdas**, to improve family health monitoring. The initiative supports the achievement of **SDG 3 (Good Health and Well-being)** by promoting preventive healthcare and disease control, **SDG 2 (Zero Hunger)** through community-based food security, and **SDG 11 (Sustainable Cities and Communities)** by fostering an inclusive, healthy, and resilient urban environment. Through *Mawas Warga Plus*, Plamongansari strives to become a **Sustainable Healthy Village**, where families are empowered, health is community-driven, and well-being is maintained for all ages.
64	PPK IMM AR Fachruddin Bersama UPT Perpustakaan Unimus Ajak Anak Desa Jamus Belajar Lewat Cerita – IMM A.R. FACHRUDDIN	**Demak, October 12, 2025** — A cheerful atmosphere filled with laughter enlivened the Jamus Village Hall on Sunday morning, as the PPK Ormawa Team of IMM AR Fachruddin, Universitas Muhammadiyah Semarang (Unimus), held a "Storytelling Class" in collaboration with the Unimus Library Unit. SDGs Poin 4: Pendidikan Berkualitas (*Quality Education*). The event, led by children's storyteller and educator Dr. Mohhamad Kusyanto, ST., MT (affectionately known as Kak Kus), was attended by around 40 participants. The attendees ranged from kindergarten to vocational high school (SMK) students, as well as kindergarten teachers from around the Jamus Village area. As soon as the session began, the atmosphere in the hall instantly turned lively yet warm. Kak Kus opened the class with an expressive and high-energy storytelling style. Using a hand puppet character, he delivered an educational story about a diligent and independent child, inviting the children to learn about responsibility and independence in a fun and engaging way.

65	 Diversifikasi Pangan, Warga Desa Jamus Didorong Manfaatkan Jagung sebagai Alternatif Beras – IMM A.R. FACHRUDDIN	Demak, September 6, 2025 — The PPK Ormawa Team of IMM A.R. Fachruddin, Universitas Muhammadiyah Semarang (UNIMUS), in collaboration with the Demak Regency Agriculture and Food Department, held a Food Security Socialization event at the Jamus Village Hall. The event was attended by 16 women from local farming groups who are members of the Economic Learning Center (PBE), as well as representatives from the village government. SDGs SDGs Poin 2: Tanpa Kelaparan (*Zero Hunger*). The event, which commenced at 08:30 AM WIB, featured expert speakers from the Demak Regency Agriculture and Food Department. The materials presented covered a wide range of aspects, from introducing alternative staple foods to replace rice—such as potatoes and corn rice—to food security strategies, food diversification, and an in-depth analysis of the caloric and nutritional content of various types of staple foods.
66	 Tingkatkan Kesadaran Warga, PPK IMM Unimus Gelar Sosialisasi Hipertensi dan Diabetes di Desa Jamus – IMM A.R. FACHRUDDIN	**DEMAK** – The PPK (Capacity Building Program) Team of IMM A.R. Fachruddin from Universitas Muhammadiyah Semarang (Unimus), in collaboration with the Jamus Village Posyandu and the Unimus Health Center (Puskesmas), conducted a health management socialization focusing on hypertension and diabetes mellitus. The event took place on Monday morning (8/9/2025) in Karangsambung Hamlet, Jamus Village, Mranggen District, Demak Regency. SDGs Poin 3: Kehidupan Sehat dan Sejahtera (*Good Health and Well-being*). The activity was held concurrently with the village's routine immunization schedule, drawing around 25 participants, including both children and parents. Additionally, about 10 village health cadres and the IMM Fachruddin PPK implementation team attended the event. The atmosphere was warm and filled with enthusiasm, despite the serious topics discussed, as the presence of the children made the venue much more lively.
67	Pekan Lomba x Seminar Internasional 2025 – HIMAGI UNIMUS 	July 2020, 2025 — The Nutrition Students Association (Himpunan Mahasiswa Gizi) successfully held the Competition Week & International Seminar. This competition week aimed to serve as a platform for achievement and ideas within the academic scope, engaging university students nationwide. The competitions included a recipe creation contest, an essay competition, educational videos, and infographics. As part of the closing series of the competition week, an International Seminar was held, centering on the main theme: "Empowerment of Local Food and Family Approaches as Efforts to Prevent Family Malnutrition at the Household Level." The seminar featured five esteemed speakers: 1. Prof. Weiqun (George) Wang, Ph.D. (Department of Food, Nutrition, Dietetics, and Health, Kansas State University, USA), presenting on *"Sustainable Nutrition Strategies for Weight Control and Chronic Disease Prevention."* 2. Jana Daher, Ph.D. Candidate, presenting on *"Dietary Supplements and the Role of Families in Influencing Their Use."*

		3. Rabiatul Adawiyah Binti Ramli, presenting on *"Nutrition Fulfillment Strategy Through Halal Food to Prevent Malnutrition in Households."* 4. Prof. Drajat Martianto, presenting on *"The Role of Families in Realizing Food Security for a Healthy Generation."* 5. Kartika Nugraheni, S.Gz, M.Gz, Ph.D., presenting on *"Local Food Empowerment as an Initial Effort to Handle Malnutrition at the Family Level."* SDGs Poin 2: Tanpa Kelaparan (*Zero Hunger*)
68	SEMINAR NASIONAL HIMPUNAN MAHASISWA KEBIDANAN – HMJ Kebidanan 	The National Seminar of HIMA KEBIDANAN UNIMUS 2025, themed *"Innovations in Maternal and Neonatal Health: Integration of Rebozo and Digital Partograph in Preventing Emergencies,"* was successfully held and received high enthusiasm from the participants. The National Seminar aimed to: • Provide the latest insights into innovations in midwifery practice, particularly regarding maternal and neonatal health. • Introduce the Rebozo technique as a non-pharmacological method that supports maternal comfort during the labor process. • Explain the utilization of the Digital Partograph as a modern tool for the early detection of emergency risks. • Serve as a scientific discussion forum that brings together students, practitioners, and midwifery academics to share experiences and knowledge SDGs Poin 3: Kehidupan Sehat dan Sejahtera (*Good Health and Well-being*).
69	 BEM KM Unimus Sukses Gelar LKMM-TM 2025: Cetak Pemimpin Muda Berkompeten untuk Masa Depan Gemilang – BEM KM Unimus – Kabinet Manifesto	The Students Executive Board of the Students Family (BEM KM) of Universitas Muhammadiyah Semarang (UNIMUS) successfully organized the 2025 Intermediate Level Student Management Skills Training (LKMM-TM). Held at the Center for Educational Quality Assurance (BBPMP), Srondol Kulon, Banyumanik District, Semarang City, this training serves as tangible proof of BEM KM Unimus's commitment to nurturing a generation of visionary, innovative, and solution-oriented leaders amidst increasingly complex modern challenges. Carrying the theme *"Elite Leadership for a Progressive Future: Shaping Young, Competent, and Competitive Leaders,"* LKMM-TM 2025 arrived as a self-development platform for students aiming to sharpen their managerial, leadership, and problem-solving skills. This theme aligns perfectly with today's global demands, which require leaders to be not only academically intelligent but also emotionally mature, creative, and highly adaptable to various situations. "We believe that today's young leaders are the drivers of future change. Through LKMM-TM, we aim to equip them with the essential skills needed to become problem solvers and innovators." SDGs Poin 4: Pendidikan Berkualitas (*Quality Education*)

70	Universitas Muhammadiyah Semarang Gelar Pengabdian Masyarakat 2025: Empat Hari Membangun Sinergi dengan Warga Tambak Mulyo. – BEM KM Unimus – Kabinet Manifesto 	As a concrete manifestation of the Three Dharmas of Higher Education (*Tridharma Perguruan Tinggi*), Universitas Muhammadiyah Semarang (UNIMUS) once again held its 2025 Community Service Program, targeting RW 15, Tambak Mulyo Village, North Semarang District. This four-day event was far from a mere annual routine; it was a collaborative movement involving all university elements—from university executives and the Student Executive Board of the Student Family (BEM KM Unimus) to representatives of Student Organizations (Ormawa)—with the shared goal of building the community through sustainable empowerment programs. The initiative commenced with an official send-off ceremony on the morning of June 26, 2025, at the Unimus Rectorate courtyard. A solemn atmosphere prevailed as the Vice Rector III of Unimus, Dr. Eny Winaryati, M.Pd., accompanied by other executive board members, personally dispatched the community service contingent and delivered words of wisdom on the importance of social awareness and the transfer of knowledge from the campus to society. SDGs Poin 11: Kota dan Permukiman yang Berkelanjutan (*Sustainable Cities and Communities*)

Description:

At Universitas Muhammadiyah Semarang, numerous student organizations actively organize sustainability-related activities that contribute to the achievement of the Sustainable Development Goals (SDGs). These initiatives span various fields, including education, environment, technology, health, and community empowerment. Examples include innovative programs such as **DAKONIC**, which promotes quality education through culture-based chemistry learning; **SmartPaddy** and **SPINOVA**, which apply IoT and appropriate technology to improve agricultural productivity and MSME efficiency; and **WASTA** and **SYNOA**, which foster financial and reproductive health literacy among youth. Environmental conservation is also emphasized through mangrove planting, climate village initiatives, and waste management education. Additionally, academic forums like seminars, workshops, and community service programs—such as **TECHVOLUTION**, **ICD4SS**, and **CenDEKIA 5.0 Learning Center**—enhance sustainability awareness and collaboration among students, faculty, and external partners. Overall, these activities reflect UNIMUS's strong commitment to integrating sustainability values into education, research, and community engagement.

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id

[6] Education and Research (ED)

[6.13] Number of cultural activities on campus (e.g.Cultural Festival) (ED.6)

1	
MASTA Inauguration Ceremony 2025 - (Universitas Muhammadiyah Semarang, Indonesia)	

Description:
Universitas Muhammadiyah Semarang concluded its 2025 Masa Ta'aruf Mahasiswa Baru (MASTA) with a vibrant inauguration ceremony that celebrated diversity, cultural expression, and student solidarity. A key highlight was the artistic showcases including traditional dance, music, drama, and collaborative performances by students during the ceremony. The event served not only as a welcoming ceremony for new students but also as a platform to strengthen cultural identity, foster inclusivity, and cultivate a sense of belonging within the university community.

This initiative contributes to **SDG 4: Quality Education** by promoting holistic student development through cultural and character-building activities; **SDG 10: Reduced Inequalities** by embracing and celebrating diversity among students from different backgrounds; **SDG 11: Sustainable Cities and Communities**, particularly Target 11.4, by safeguarding and promoting Indonesia's cultural heritage through traditional arts and cultural performances; and **SDG 16: Peace, Justice and Strong Institutions** by fostering social cohesion, mutual respect, and a strong sense of community among the university's academic members. Through the integration of cultural heritage into student orientation activities, UNIMUS reinforces its commitment to preserving local culture while nurturing responsible and culturally aware future leaders.

Example of Total number **cultural activities on campus** organized by the University : more than 3 **events**

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://unimus.ac.id/meriah-dan-penuh-makna-inagurasi-masta-2025-unimus-rayakan-semangat-kebersamaan-mahasiswa-baru/
https://www.instagram.com/p/DPC6lD1E1Kn/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA%3D%3D&img_index=1







2		
Kirab Budaya (Festival of Culture) - (Universitas Muhammadiyah Semarang, Indonesia)		

Description:
Kirab Budaya is held as one of a series of activities during the Samusda Nusantara Festival in Universitas Muhammadiyah Semarang to welcome new students during the orientation period. This event serves as a platform to introduce the rich cultural diversity of Indonesia while fostering a sense of unity, mutual respect, and appreciation among students from different backgrounds. Through traditional performances, cultural attire, and artistic expressions, participants are encouraged to celebrate cultural heritage and strengthen social cohesion within the university community.

The implementation of Samusda Nusantara Festival aligns with **SDG 4: Quality Education**, by promoting cultural awareness and inclusive learning experiences beyond the classroom; **SDG 10: Reduced Inequalities**, by embracing diversity and encouraging equal participation regardless of ethnic, cultural, or social background; and **SDG 11: Sustainable Cities and Communities**, by preserving and promoting cultural heritage as an important component of sustainable and inclusive communities.

Example of Total number **cultural activities on campus** organized by the University : more than 3 **events**

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link: https://www.instagram.com/p/DPGigvLkzZ5/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA== https://mepnews.id/2025/09/28/kirab-budaya-unimus-rayakan-keberagaman/#google_vignette https://pwmjateng.com/meriah-kirab-budaya-2025-unimus-jadi-ajang-mahasiswa-baru-rayakan-keberagaman-nusantara/
 
 

3		
Hutan Wakaf - (Universitas Muhammadiyah Semarang, Indonesia)		

Description:
UNIMUS in collaboration with the Lembaga Hikmah dan Kebijakan Publik (LHKP) PP Muhammadiyah and Lembaga Alam Tropika Indonesia (LATIN), launched the Hutan Wakaf Pendidikan (Educational Waqf Forest) as an initiative to promote environmental conservation, sustainable land management, and ecological education. Developed on approximately 3,000 m² of land within the campus, the project serves as a productive green space and a living laboratory for research, learning, and community empowerment while integrating Islamic values with environmental stewardship.

This initiative contributes to **SDG 4: Quality Education** by providing experiential learning and research opportunities in sustainability; **SDG 13: Climate Action** through tree planting and environmental restoration efforts; **SDG 15: Life on Land** by supporting biodiversity conservation and sustainable ecosystem management; and **SDG 17: Partnerships for the Goals** through collaboration among higher education institutions, civil society organizations, religious institutions, and government stakeholders.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link: https://www.instagram.com/p/DN2ctvWZMK2/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA== https://unimus.ac.id/berkolaborasi-dengan-lkhp-pp-muhammadiyah-dan-latin-unimus-luncurkan-hutan-wakaf-pendidikan-di-lingkungan-kampus/
 
 

4		
MILAD KE-26 UNIMUS - (Universitas Muhammadiyah Semarang, Indonesia)		

Description:

MILAD ke-26 UNIMUS is a month-long celebration that strengthens institutional identity while fostering cultural appreciation, community engagement, and social cohesion. Among its activities are traditional games competitions, a tumpeng decorating contest, and a nostalgic cultural gathering (*Malam Tembang Kenangan*), which serves to preserve local traditions and encourage intergenerational cultural exchange within the university community. Through these events, UNIMUS promotes the value of cultural heritage as an integral part of a progressive and impactful campus culture.

This activity supports **SDG 4: Quality Education** by providing informal learning experiences that cultivate cultural awareness and character development; **SDG 11: Sustainable Cities and Communities** by preserving and celebrating Indonesia's cultural heritage through traditional arts, games, and customs; and **SDG 16: Peace, Justice and Strong Institutions** by fostering inclusivity, mutual respect, and a sense of belonging among members of the

university community. By integrating cultural traditions into campus life, UNIMUS contributes to the development of socially responsible graduates who value diversity and cultural sustainability.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://www.instagram.com/p/DPGigvLkzZ5/?utm_source=ig_web_copy_link&igsh=MzRlODBiNWFlZA==
https://mepnews.id/2025/09/28/kirab-budaya-unimus-rayakan-keberagaman/#google_vignette
https://pwmjateng.com/meriah-kirab-budaya-2025-unimus-jadi-ajang-mahasiswa-baru-rayakan-keberagaman-nusantara/







5	
Archiversary Exhibition by Architecture UNIMUS - (Kota Lama Semarang, Indonesia)	

Description:

The **Archiversary Exhibition 2025**, organized by the Architecture Study Program of Universitas Muhammadiyah Semarang, was held from 22–24 August 2025 at the historic Weeskamer Building in the Kota Lama Semarang heritage area. The exhibition showcased a wide range of student architectural designs and visual works through creative and innovative displays, providing a platform for students to present their ideas while engaging the public with architecture, design, and cultural heritage. By utilizing a historic venue and encouraging dialogue between students and visitors, the exhibition promoted appreciation for both contemporary architectural innovation and the cultural significance of Semarang's built heritage.

This initiative contributes to **SDG 4: Quality Education** by fostering experiential learning, creativity, and professional development for architecture students; **SDG 11: Sustainable Cities and Communities**, by raising awareness of cultural heritage preservation through activities held in the Kota Lama heritage district and by encouraging appreciation of historic architecture; and **SDG 9: Industry, Innovation and Infrastructure** by promoting innovative design thinking and showcasing sustainable architectural concepts. The exhibition also strengthened connections between the university and the wider community, demonstrating how architectural education can support cultural preservation and sustainable urban development.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://unimus.ac.id/rayakan-milad-ke-3-tahun-prodi-arsitektur-unimus-gelar-archiversary-exhibition-di-kota-lama-semarang/
https://www.instagram.com/p/DM2c9tBSU5Q/?img_index=1
https://www.instagram.com/p/DN3GFegZN-E/?img_index=1
https://pwmjateng.com/meriah-pameran-archiversary-unimus-tampilkan-karya-arsitektur-kreatif-di-kota-lama-semarang/







6	
UNIMUS Choir Achievements at the Festival Swara Saraswati - (Yogyakarta)	

Description:
UNIMUS Choir achieved outstanding success at the Festival Swara Saraswati (FSS) 2025 in Yogyakarta by winning two Gold Medals and the Best Conductor Award, one of the awards being a Gold Medal in Folk Song Category. Through performances that combined vocal excellence, artistic interpretation, and musical discipline, the choir showcased the talents of UNIMUS students on a national stage while contributing to the promotion of choral arts as an important form of cultural expression. The achievement reflects the university's commitment to nurturing creativity, preserving performing arts traditions, and encouraging student participation in cultural activities that enrich campus life and strengthen cultural appreciation among young people.

This accomplishment contributes to **SDG 4: Quality Education** by fostering students' artistic, leadership, and collaborative skills through extracurricular learning experiences; **SDG 11: Sustainable Cities and Communities** by supporting the preservation and promotion of cultural heritage through music and performing arts; and **SDG 16: Peace, Justice and Strong Institutions** by encouraging inclusivity, teamwork, and social cohesion through collective artistic engagement. Through its success in a national cultural competition, the UNIMUS Choir demonstrates how higher education institutions can contribute to cultural sustainability while empowering students to become ambassadors of arts and culture.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://youtu.be/d4iW_12WZ9k?si=3FvVHrBqpitUPDsR
https://www.instagram.com/p/DGJ6nnAz90S/?img_index=2
https://pbing.unimus.ac.id/unimus-choir-raih-dua-gold-medal-dan-best-conductor-di-fss-2025-isi-yogyakarta/

 UNIMUS Choir 84,58 Medali Emas B UNIMUS Choir 83,88	 SERTIFIKAT PENGHARGAAN ini menyatakan bahwa UNIMUS Choir dengan pengaba Andri Dianasari telah meraih penghargaan MEDALI EMAS B 84.58 dalam kategori Paduan Suara Dewasa Campuran pada acara Festival Swara Saraswati II Yogyakarta,12-16 Februari 2025 SERTIFIKAT PENGHARGAAN ini menyatakan bahwa UNIMUS Choir dengan pengaba Andri Dianasari telah meraih penghargaan MEDALI EMAS B 83.88 dalam kategori Paduan Suara Lagu Rakyat pada acara Festival Swara Saraswati II Yogyakarta,12-16 Februari 2025

7		
Nutrition UNIMUS Students Performs Semarang Traditional Dance in International Stage - (Universitas Muhammadiyah Semarang, Indonesia)		

Description:
The **CENTRALOSUN: Art Exhibition**, organized by the English Literature Student Association (HIMAPROSA) of Universitas Muhammadiyah Semarang, was held as part of Literature Week 2025 under the theme *"Ink in the Dark: A Literary Quest for Light."* The exhibition featured dozens of visual artworks created by English Literature students, transforming literary texts into visual art through the concept of mimesis, which views literature as a reflection of reality. By combining literature, visual arts, and creative interpretation, the exhibition provided a platform for students to express ideas, engage with cultural and literary works, and demonstrate how literary heritage can be communicated through contemporary artistic media.

This initiative contributes to **SDG 4: Quality Education** by fostering creativity, critical thinking, and interdisciplinary learning through literature and the arts; **SDG 11: Sustainable Cities and Communities** by promoting literary and cultural expression as an important component of cultural heritage preservation; and **SDG 16: Peace, Justice and Strong Institutions** by encouraging dialogue, inclusivity, and cultural understanding through artistic engagement. The exhibition also supports the development of a vibrant cultural environment on campus, demonstrating how higher education institutions can preserve and promote cultural values through innovative forms of artistic and literary expression.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://www.krjogja.com/kampus/1246164083/himaprosa-unimus-hadirkan-pameran-centralosun-dalam-rangkaian-pekan-sastra-2025
https://www.instagram.com/p/DLJ2Z7PzHdD/

http://radarsemarang.jawapos.com/edukasi/2506270031/himaprosa-hadirkan-pameran-centralosun-kolaborasi-project-semimpi-dan-litnight-show









8	
Nutrition Study UNIMUS Students Performs Semarang Traditional Dance - (28th World Congress on Clinical Nutrition - Bogor, Indonesia)	

Description:
Ten students from the Nutrition Study Program of Universitas Muhammadiyah Semarang represented Indonesian culture at the 28th World Congress on Clinical Nutrition (WCCN) 2025 in Bogor by performing the traditional Geol Denok Dance, a cultural icon of Semarang. Presented during the closing ceremony of the international congress, the performance received enthusiastic appreciation from participants, academics, researchers, and nutrition professionals from various countries. Through this cultural showcase, UNIMUS not only participated in a global scientific forum but also introduced the richness of Indonesian cultural heritage to an international audience, demonstrating the role of students as ambassadors of both knowledge and culture.

This initiative contributes to **SDG 4: Quality Education** by providing students with opportunities to develop cultural competence, confidence, and global engagement beyond the classroom; **SDG 11: Sustainable Cities and Communities** by promoting and safeguarding intangible cultural heritage through the performance of a traditional Semarang dance on an international stage; and **SDG 17: Partnerships for the Goals** by fostering cross-cultural exchange and collaboration through participation in a global congress attended by experts and delegates from multiple countries. By integrating cultural representation into an international academic event, UNIMUS strengthens cultural diplomacy while promoting Indonesian heritage as part of global engagement and sustainable development.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link: https://unimus.ac.id/mahasiswa-gizi-unimus-tampilkan-tari-geol-denok-di-ajang-internasional-wccn-ke-28/






28TH WORLD CONGRESS ON CLINICAL NUTRITION (WCCN) 2025
"Functional Food, Sustainable Diet, Behavioral and Clinical Nutrition in the Interdisciplinary and Personalized Nutrition Era"
28 WCCN

9	
Kartini Day in UNIMUS - (Universitas Muhammadiyah Semarang, Indonesia)	

Description:
Universitas Muhammadiyah Semarang commemorated Kartini Day 2025 by encouraging lecturers, staff, and students to wear traditional Indonesian attire (baju adat Nusantara) during campus activities. The celebration served as a tribute to the legacy of R.A. Kartini while promoting appreciation for Indonesia's rich cultural diversity and traditional heritage. By showcasing various regional costumes from across the archipelago, the event fostered cultural pride, strengthened national identity, and created opportunities for the university community to learn about and celebrate the cultural traditions that form part of Indonesia's intangible heritage.

This initiative contributes to **SDG 4: Quality Education** by promoting cultural literacy, character development, and awareness of national heritage among students and staff; **SDG 5: Gender Equality** by honoring the contributions and values championed by R.A. Kartini in advancing women's empowerment and educational opportunities; and **SDG 11: Sustainable Cities and Communities** by preserving and promoting cultural heritage through the appreciation and use of traditional attire. Through this celebration, UNIMUS reinforces its commitment to fostering cultural sustainability, inclusivity, and respect for Indonesia's diverse cultural identities within the academic community.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://unimus.ac.id/unimus-peringati-hari-kartini-dengan-nuansa-baju-adat-nusantara/
https://www.instagram.com/p/DIvIE6yTsiX/?img_index=2









10	
Pesona Seni (The Charm of Art) by UNIMUS Art Club - (Universitas Muhammadiyah Semarang, Indonesia)	

Description:

Pesona Seni 2025, organized by UNIMUS Art Club, served as a vibrant platform for students and school participants to showcase their artistic talents and creativity. The event featured painting competitions, music performances, traditional and contemporary dance, theater productions, and an exhibition of visual artworks created by UNIMUS Art Club members. By bringing together diverse forms of artistic expression, Pesona Seni fostered appreciation for the arts, encouraged creative development, and strengthened cultural engagement within the university community.

This initiative contributes to **SDG 4: Quality Education** by supporting creativity, self-expression, and experiential learning through the arts; **SDG 11: Sustainable Cities and Communities** by promoting and preserving cultural and artistic heritage through performances and exhibitions; and **SDG 16: Peace, Justice and Strong Institutions** by strengthening social cohesion, collaboration, and community participation through inclusive cultural activities. Through Pesona Seni, UNIMUS demonstrates its commitment to cultivating a dynamic cultural environment that nurtures artistic talent and cultural appreciation.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link: https://www.instagram.com/p/DMHYWLSRyBI/?img_index


Ketum x Waketum


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Ketum x Waketum

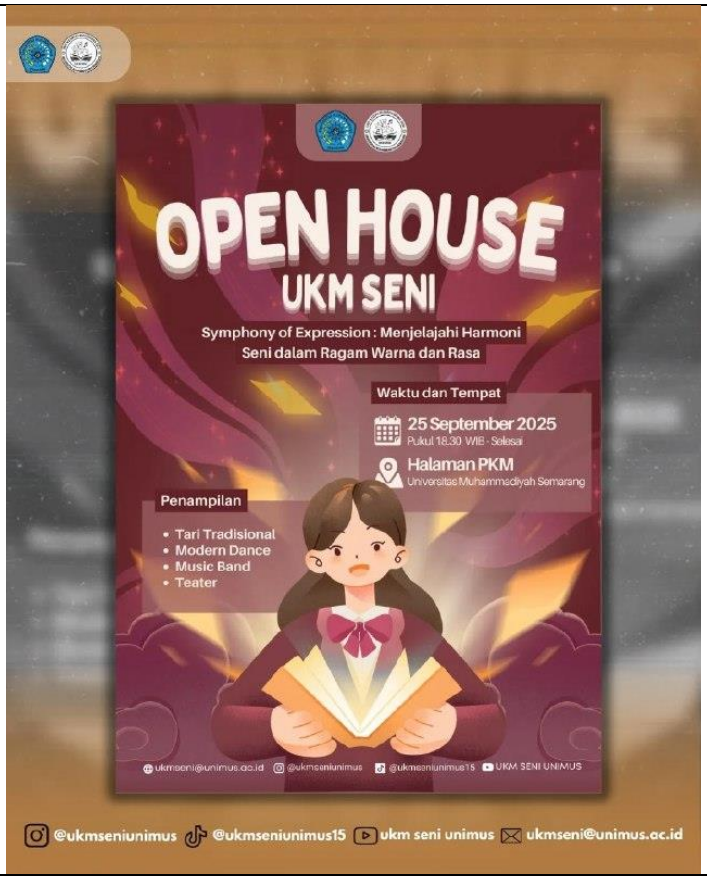

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Ketum x Waketum


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Ketum x Waketum


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ukmseni@unimus.ac.id

11			
UNIMUS Art Club Open House 2025 - (Universitas Muhammadiyah Semarang, Indonesia)			

Description:
The UNIMUS Art Club Open House 2025 at Universitas Muhammadiyah Semarang introduced students to the university's vibrant arts community through a showcase of cultural and creative performances. The event featured traditional dance, modern dance, music band performances, and theater, providing opportunities for participants to experience diverse artistic expressions while fostering interest in cultural and performing arts. As a welcoming and interactive event, the Open House encouraged student involvement in artistic activities and strengthened appreciation for both traditional and contemporary forms of culture.

This initiative contributes to **SDG 4: Quality Education** by promoting creativity, lifelong learning, and student development through extracurricular arts engagement; **SDG 11: Sustainable Cities and Communities** by supporting the preservation and promotion of cultural heritage through traditional dance and performing arts; and **SDG 16: Peace, Justice and Strong Institutions** by fostering inclusivity, community engagement, and cultural understanding among students. Through this event, UNIMUS reinforces the role of arts and culture in creating an inclusive and culturally rich campus environment.

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):

Publication link:
https://www.instagram.com/p/DO0lzeREzTX/?img_index
https://www.instagram.com/p/DPIsqvYEziJ/?img_index


OPEN HOUSE


OPEN HOUSE


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ukm seni unimus
ukmseni@unimus.ac.id


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ukm seni unimus
ukmseni@unimus.ac.id

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : unimus.ac.id

[6] Education and Research (ED)

[6.18] Number of university sustainability program(s) with international collaborations (ED.9)

1. Education Trip

Poster :



Program : International Community Service Program – "Healthy Halal Indonesian Food for the Community"

Description :

This international community service program was organized by the Nutrition Study Program, Faculty of Nursing and Health Sciences, Universitas Muhammadiyah Semarang (UNIMUS) in collaboration with Chulalongkorn University, Bangkok, Thailand.

Aligned with the principles of a Sustainability Campus, the program emphasized sustainable health education and the promotion of culturally rooted, nutritious, and environmentally responsible food practices.

The initiative aimed to promote nutrition education and introduce healthy and halal Indonesian cuisine to the international community as part of the Thailand–Indonesia Cultural Exchange Project, fostering awareness of sustainable food systems that support community well-being.

Activities included:

- Nutrition education sessions focused on balanced diets and sustainable nutrition practices.
- Cooking demonstrations of traditional Indonesian dishes such as *ayam ungkep* and *rendang*, highlighting their nutritional value, halal preparation, and potential contribution to sustainable dietary behavior.

- Cultural exchange and discussion sessions involving UNIMUS lecturers and students, Chulalongkorn University representatives, and the local Indonesian Muslim community in Bangkok (PCIM Bangkok), promoting global citizenship and responsible cultural engagement.

Through this program, UNIMUS strengthened academic collaboration, cultural understanding, and international engagement between Indonesia and Thailand, while advancing the university's commitment to the United Nations Sustainable Development Goals (SDGs)—particularly those related to health (SDG 3), quality education (SDG 4), sustainable consumption (SDG 12), and global partnership (SDG 17).

MoU :
https://drive.google.com/file/d/1qdYKxY8yAfiBAF6PKMgHiHTXueeeqTqA/view?usp=sharing

Documentation & Report Program :
https://docs.google.com/document/d/1RdrkbAVcZuFGBLOAsy9rCgT-AsPQJsxA/edit?usp=sharing&ouid=101995282479259060673&rtpof=true&sd=true

2. Student Exchange

Poster :



Program :
The 3rd International Conference on Science, Engineering, and Technology (Icoscientech 2025)

Description :

The International Conference on Science, Engineering, and Technology (Icoscientech 2025) is an annual academic event organized by the Faculty of Engineering and Computer Science (FTIK), Universitas Muhammadiyah Semarang (UNIMUS).

In alignment with the principles of a Sustainability Campus, this international conference serves as a strategic platform for fostering sustainable innovation, green technology advancement, and global academic collaboration in the fields of science, engineering, and technology.
The conference encourages interdisciplinary research discussions that support the achievement of the United Nations Sustainable Development Goals (SDGs), particularly in areas related to industry innovation and infrastructure (SDG 9), quality education (SDG 4), and partnerships for the goals (SDG 17).

Through keynote sessions, paper presentations, and collaborative networking, Icoscientech 2025 promotes responsible technological development and the integration of sustainability values into engineering and computing practices. This initiative reinforces UNIMUS's commitment to advancing knowledge that contributes to environmental stewardship, energy efficiency, and sustainable community development.

MoU :
Dilli Institute of Technology Timor Leste
https://drive.google.com/file/d/1X00YZezfTH9zADAWjT5kF41-ChQ2QRCF/view?usp=drive_link

Documentation & Report Program :
https://drive.google.com/file/d/1_Hw9wNFly-jBEIpOjTmFW71dCg5SEeJU/view?usp=sharing

3. Education Trip

Poster :



Program :
Implementation of 4Cs through Lesson Study for Learning Community (LSLC), Malaysia–Indonesia Collaboration

Description :
This Program (PkM) focuses on implementing 21st-century learning skills, known as the 4Cs (Critical Thinking, Creativity, Collaboration, and Communication), through the Lesson Study for Learning Community (LSLC) approach.
In line with the principles of a Sustainability Campus, this initiative emphasizes inclusive and quality education, capacity building, and collaborative learning ecosystems that contribute to the achievement of the United Nations Sustainable Development Goals (SDG 4 – Quality Education and SDG 17 – Partnerships for the Goals).
The activity consisted of several key stages:
• Lesson Study workshop and collaborative learning design (Plan) to strengthen pedagogical innovation and shared responsibility in sustainable teaching practices.
• Open Class implementation at SMK Seremban Jaya, Malaysia, featuring model teachers from the partner school and observers from Malaysian teachers and Unimus lecturers, promoting intercultural and

institutional collaboration.
• Observation and analysis of student engagement with reference to 4Cs indicators, integrating reflective and evidence-based teaching to improve learning outcomes sustainably.
• Joint reflection session (See) to evaluate the learning process and identify best practices that can be continuously improved and scaled across educational contexts.
This program aims to enhance teaching quality, promote cross-cultural academic exchange, facilitate opportunities for future international teaching internships, and foster sustainable collaboration in education, research, and community engagement between Indonesia and Malaysia. It reinforces the university's ongoing commitment to developing resilient, globally minded educators who contribute to sustainable human development and lifelong learning.

MoU :

Seremban District Education Office (Pejabat Pendidikan Daerah Seremban), Negeri Sembilan, Malaysia
MYALS (Malaysian Lesson Study Association)
https://drive.google.com/file/d/1prgaYMY0zV7Hrq4Jq-2T6KTZOr5DjYOb/view?usp=sharing

Documentation & Report Program :
https://drive.google.com/file/d/1Kf86xTvWMTThdFNvM6-D0JqB-ewkfuVM/view?usp=sharing

4. Scientific Exchange

Poster :





Program : 13th International Conference of the Indonesian Chemical Society (ICICS) 2025 in conjunction with the 20th Joint Conference on Chemistry (JCC) 2025

Description :

The conference served as an international academic forum that brought together researchers, academics, industry professionals, and postgraduate students from multiple countries to present and discuss the latest research in chemistry and chemical education.
Aligned with the vision of a Sustainability Campus, the conference emphasized the critical role of chemistry in supporting sustainable development, green innovation, and environmentally responsible scientific practices that contribute to the United Nations Sustainable Development Goals (SDGs).

With the theme "Advancing Chemistry for Green Innovation and Sustainable Future," the event facilitated:
• Plenary sessions led by international keynote speakers addressing sustainability-driven chemical innovations,
• Oral and poster presentations of research papers highlighting advances in green chemistry and eco-friendly technologies,
• Opportunities for collaborative networking to strengthen academic and industrial cooperation for sustainable solutions,
• Strengthening of international research partnerships to promote responsible scientific collaboration,
• Promotion of sustainable chemistry applications in food, energy, and water security, supporting integrated sustainability practices.

The conference aimed to encourage global scientific exchange, foster collaborative research, and enhance the visibility of Indonesian chemical science at the international level, while advancing the shared mission of building a more sustainable, innovative, and environmentally conscious academic community.

MoU :

Universiti Malaya – Malaysia
https://drive.google.com/file/d/1v6HI1XrnJLeK4AFJsSFT_u_6INQvIu7a/view?usp=sharing

Documentation & Report Program :
https://drive.google.com/file/d/1LwJOx4eGoN5RwjUe3u_F597DjkHjlnIH/view?usp=sharing

5. Focus Group Discussion with Prasanwittaya Mulniti School (Thailand)

Poster :



Program : Focus Group Discussion with Prasanwittaya Mulniti School (Thailand)

Description :

The activity comprised the formal signing of a Memorandum of Understanding (MoU) and a Memorandum of Agreement (MoA) between Universitas Muhammadiyah Semarang (Unimus) and Prasanwittaya Mulniti School, Thailand. In accordance with the principles of a Sustainability Campus, this partnership represents a strategic initiative to strengthen global educational collaboration, promote inclusive academic exchange, and foster long-term international cooperation aligned with the United Nations Sustainable Development Goals (SDG 4 – Quality Education and SDG 17 – Partnerships for the Goals).

Following the signing ceremony, the two institutions engaged in interactive discussions between the Thai delegation and the faculty deans of Unimus to explore collaborative opportunities in education, student and staff exchange, and joint cultural–academic initiatives. These discussions underscored Unimus's ongoing commitment to building a globally connected and sustainability-oriented academic ecosystem.
During the dialogue, both parties explored potential areas of collaboration, including student and teacher exchange programs, joint workshops, cultural immersion activities, and future research partnerships that support sustainable educational development and cross-cultural understanding. The session aimed to build mutual awareness of each institution's strengths and educational approaches, identifying key areas of synergy that promote innovation, diversity, and sustainable growth in higher education.
The meeting concluded with a shared commitment to implement collaborative programs in the near future, marking the beginning of a sustainable and transformative international partnership that contributes to the realization of global education and community development goals.

MoU :

Prasanwittaya Mulniti School (Thailand)
https://drive.google.com/file/d/13GrbPgDkaYw4TuuN4W8wyAakub4XDbn-/view?usp=sharing

Documentation & Report Program :
https://unimus.ac.id/unimus-dan-prasanwittaya-mulniti-school-thailand-jalin-kerja-sama-internasional-melalui-penandatanganan-mou-dan-moa-2/

6. Guest Lecture

Poster :



Program : Guest Lecture and Implementation Arrangement (IA) with the Agricultural Attaché of the Indonesian Embassy to Belgium, Luxembourg and the European Union

Description :

The program, organized by Universitas Muhammadiyah Semarang (Unimus) through its Faculty of Agricultural Science and Technology and Faculty of Economics and Business, featured a guest lecture delivered by Dr. Winarti Halim (Agricultural Attaché, Embassy of the Republic of Indonesia – Belgium, Luxembourg & the European Union).

In line with the principles of a Sustainability Campus, the activity supported global dialogue on sustainable agriculture, international trade, and food system resilience. The lecture, titled “Global Strategic Agricultural Issues: Competition and the Competitive Advantage of Indonesian Food Products in the European Union,” emphasized the importance of strengthening Indonesia’s agricultural competitiveness while promoting sustainability, food security, and environmentally responsible practices.

In conjunction with the guest lecture, the university also held the signing of an Implementation Arrangement (IA) to formalize cooperation between Unimus and the Agricultural Attaché Office of the Indonesian Embassy. This collaboration reflects Unimus’s strategic commitment to advancing international partnerships (SDG 17), sustainable agriculture (SDG 2), and quality education (SDG 4) through research, academic exchange, and applied learning initiatives.

The event aimed to strengthen the university’s global collaboration, broaden students’ understanding of international agricultural trade and sustainability, and enhance Unimus’s positioning as a globally engaged higher-education institution dedicated to advancing the sustainability agenda across education, research, and community development.

MoU :

The Agricultural Attaché of the Indonesian Embassy to Belgium, Luxembourg and the European Union
https://drive.google.com/file/d/1tCmMqhDI9HYXsA5GBMPVX4rd5uheyo1B/view?usp=sharing

Documentation & Report Program :

https://unimus.ac.id/unimus-gelar-guest-lecture-dan-ia-bersama-atase-pertanian-kbri-untuk-belgia-luksemburg-dan-uni-eropa/

7. Guest Lecture

Poster :



Program : Techvolution: Shaping the Future of Engineering and Technology in the Virtual World

Description :

This activity was conducted as a General Lecture (Guest Lecture/Visiting Professor Program) aimed at enhancing students' understanding of current and future technological trends within the era of Industrial Revolution 4.0 and towards Society 5.0, particularly in the context of virtual worlds. In accordance with the vision of a Sustainability Campus, this program integrates global digital innovation with ethical and sustainable perspectives, supporting the United Nations Sustainable Development Goals (SDG 4 – Quality Education, SDG 9 – Industry, Innovation, and Infrastructure, and SDG 17 – Partnerships for the Goals).

The event featured expert speakers from partner institutions specializing in remote sensing, artificial intelligence, metaverse development, and the integration of Islamic values in technology, highlighting the importance of harmonizing technological progress with cultural and moral sustainability.
The program provided:
• Insights into cutting-edge developments in engineering and virtual technology that promote sustainable innovation.
• Academic exposure to global perspectives through international speakers contributing to inclusive and cross-disciplinary learning.
• Strengthened academic networks through cross-border collaboration that fosters knowledge exchange and long-term partnerships.
• Inspiration for students to innovate responsibly, becoming competitive and ethical contributors in the digital era.

The event also reinforced international cooperation in alignment with the Merdeka Belajar Kampus Merdeka (MBKM) framework and positioned Universitas Muhammadiyah Semarang (Unimus) as an active global academic institution committed to advancing sustainable digital transformation, global citizenship, and educational resilience.

MoU :

International Islamic University Malaysia (IIUM), Malaysia
https://drive.google.com/file/d/1JAKXIt6U6ZJ0MnXyS7T5LP8Sd8Bp72WQ/view?usp=sharing

Documentation & Report Program :
https://drive.google.com/file/d/158oFBWZnQglBmuL74rxzkWCcyJzTCTiI/view?usp=sharing

8. Join Research



Poster :

Program :

Feature Selection in Peer-to-Peer Lending Based on Hybrid Modified Grey Wolf Optimization with Optimized Decision Tree for Credit Risk Assessment

Description :

The study addresses credit risk assessment in peer-to-peer (P2P) lending, contributing to the development of a more transparent, responsible, and sustainable financial ecosystem. Specifically, it proposes a hybrid feature-selection approach using a modified version of the Grey Wolf Optimizer (GWO) in combination with an optimized Decision Tree model.

In alignment with the Sustainability Campus vision and the United Nations Sustainable Development Goals (particularly SDG 8 – Decent Work and Economic Growth, SDG 9 – Industry, Innovation, and Infrastructure, and SDG 12 – Responsible Consumption and Production), this research seeks to enhance digital financial inclusion and promote data-driven sustainability in financial decision-making.
The proposed model aims to improve the accuracy and efficiency of selecting the most predictive features in P2P lending datasets, thereby strengthening the ability to identify high-risk borrowers and reduce default risk. By integrating advanced computational intelligence methods with ethical and sustainable finance

principles, this study contributes to the creation of resilient, fair, and sustainable financial technologies that support inclusive economic development and institutional innovation.

MoU :

Universiti Malaysia Terengganu

https://drive.google.com/file/d/1RCQ_Gyo2HIFSa2k8Gm4Ph3-OjqgTmIA0/view?usp=sharing

Documentation & Report Program :

https://www.tandfonline.com/doi/full/10.1080/17509653.2024.2381742?scroll=top&needAccess=true

9. Join Research

Poster :



Program :

An improved Grey Wolf Optimization based heuristic initialization algorithm for feature selection in P2P lending default prediction

Description :

The study addresses key challenges in the domain of peer-to-peer (P2P) lending, particularly the difficulty of predicting default risk when dealing with datasets that contain numerous irrelevant features and high

dimensionality—commonly referred to as the “curse of dimensionality.”
In line with the Sustainability Campus vision and the principles of responsible digital innovation, this research contributes to advancing sustainable financial technologies that promote transparency, accountability, and data-driven decision-making in financial ecosystems.

To overcome the complexity issue, the authors propose a hybrid optimization algorithm that integrates the Grey Wolf Optimization (GWO) algorithm for feature selection with an improved initialization mechanism using Ant Colony Optimization (ACO). The ACO component enhances the quality of initial solutions for GWO, resulting in a more efficient optimization process and improved accuracy in default-risk prediction within P2P lending environments.
In experimental evaluations using different configurations of search agents (50, 100, 250), the improved GWO+ACO hybrid model demonstrated consistent performance with approximately 91% accuracy across all configurations, while the standard GWO varied (85%, 90%, and 91% for 50, 100, and 250 agents, respectively).

The findings indicate that the hybrid model enhances stability, precision, and computational efficiency in selecting relevant features from complex financial datasets.
This study aligns with the United Nations Sustainable Development Goals (SDG 8 – Decent Work and Economic Growth, SDG 9 – Industry, Innovation, and Infrastructure, and SDG 12 – Responsible Consumption and Production) by supporting ethical, sustainable, and technology-driven financial innovation that strengthens economic resilience and promotes responsible digital transformation.

MoU :

Universiti Malaysia Terengganu

https://drive.google.com/file/d/1RCQ_Gyo2HIFSa2k8Gm4Ph3-OjqgTmIA0/view?usp=sharing

Documentation & Report Program :

https://www.tandfonline.com/doi/abs/10.1080/1206212X.2025.2457959

10. Join Research

Poster :



Program : Hybrid dynamic Ant Colony and Grey Wolf optimizer for feature selection in P2P lending default prediction

Description :

The study addresses the domain of peer-to-peer (P2P) lending, specifically focusing on predicting the default risk of lenders and borrowers in P2P platforms. The research recognizes that responsible financial innovation and data-driven decision-making are essential components of building a sustainable and inclusive digital economy, in line with the Sustainability Campus framework and the United Nations Sustainable Development Goals (SDGs)—particularly SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 12 (Responsible Consumption and Production).

The key technical challenge it tackles is feature selection in datasets used for default-risk prediction in P2P lending. In such datasets, the presence of numerous, often irrelevant or redundant, features can reduce the accuracy and efficiency of predictive models. To address this challenge, the study proposes a hybrid optimization algorithm that combines a dynamic version of the Ant Colony Optimization (ACO) algorithm with the Grey Wolf Optimizer (GWO).

This hybrid algorithm is designed to improve the efficiency of the feature-selection process by identifying the most relevant and informative attributes, thereby enhancing the accuracy and reliability of default-risk prediction in P2P lending scenarios. The research is both methodological—introducing a novel hybrid algorithmic approach—and applied, demonstrating its relevance and impact in the field of sustainable financial technology.

By optimizing prediction processes within P2P lending systems, the study contributes to the advancement of ethical, efficient, and sustainable fintech practices, supporting financial inclusion and stability within the broader framework of sustainable digital transformation.

MoU :

Universiti Muhammadiyah Malaysia

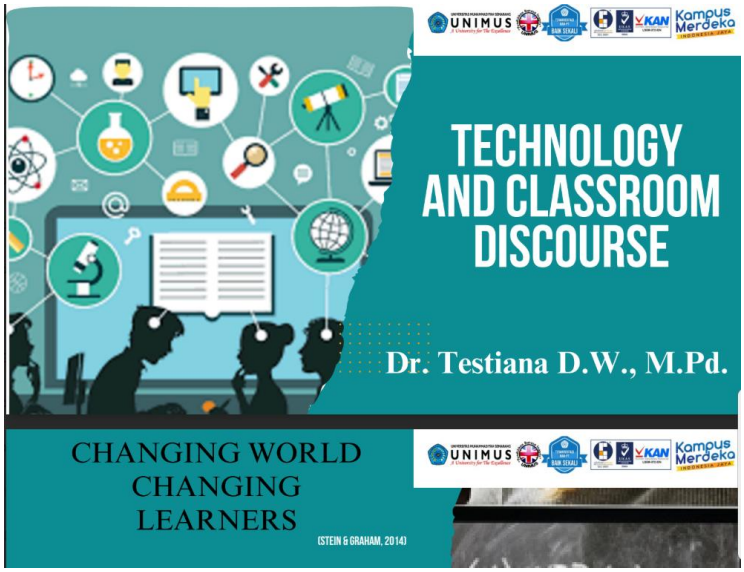
https://drive.google.com/file/d/1cdpcbiJt3MZaezifHLnYFQHBgYQggCmm/view?usp=sharing

Documentation & Report Program :

https://www.tandfonline.com/doi/abs/10.1080/03081079.2025.2556786

11. Guest Lecture

Poster :



Program : Visiting Lecturer Program: Implementation of Collaboration between the Faculty of Languages and Communication (FBK), Universiti Pendidikan Sultan Idris (UPSI, Malaysia), and the English Language Education Study Program, Faculty of Education and Humanities, Universitas Muhammadiyah Semarang (UNIMUS, Indonesia)

Description:

This program is part of an academic mobility collaboration between Universiti Pendidikan Sultan Idris (UPSI) and Universitas Muhammadiyah Semarang (UNIMUS), designed to promote cross-border academic exchange and enhance the teaching and learning process in English Language Education. In alignment with the Sustainability Campus vision, the initiative supports inclusive, equitable, and quality education (SDG 4) and fosters international partnerships for sustainable academic growth (SDG 17).

The initiative was conducted online via Google Meet as a non-credit mobility program focusing on the theme “Classroom Discourse” (Wacana Kelas Bahasa Inggris), demonstrating that meaningful global learning can take place through sustainable digital engagement.

Key Objectives and Activities:

1. Academic Enrichment:
   Students explored the theoretical and practical concepts of *Classroom Discourse*—including classroom talk, questioning strategies, feedback patterns, and interactional analysis—within English as a Second Language (TESL) contexts in Malaysia and Indonesia.
2. Cross-Cultural Learning:
   Participants compared educational practices, communication styles, and teaching methodologies in both countries, fostering intercultural understanding and collaborative learning as part of sustainable educational development.
3. Strengthening Academic Networks:
   The program built a foundation for future collaborations, such as joint research, faculty exchange, and continuous mobility programs, ensuring the long-term sustainability of international academic cooperation between UPSI and UNIMUS.
4. Skill Development:
   Students engaged in team-based assignments and simulation activities that strengthened their analytical, pedagogical, and communication skills, preparing them to become globally competent educators aligned with the principles of sustainable human capital development.
5. Internationalization of Education:
   The program advanced the missions of both UPSI and UNIMUS to internationalize their curricula and promote global education partnerships through digital knowledge sharing and cultural exchange.

Lecturers Involved:

- PM Dr. Intan Safinas bt Mohd Ariff Albakri (UPSI)
- Dr. Aireen Aina Bahari (UPSI)
- Dr. Diana Hardiyanti, M.Hum. (UNIMUS)
- Dr. Testiana Deni W., M.Pd. (UNIMUS)

The UPSI–UNIMUS Inbound and Outbound Mobility Programme successfully fostered cross-cultural academic collaboration between Malaysia and Indonesia. Through online lectures, discussions, and interactive sessions on *Classroom Discourse*, students developed pedagogical insight and intercultural competence, contributing to the broader goals of sustainable education and global citizenship.
The program achieved significant outcomes, including:

- Strengthening the academic reputation and global engagement of both institutions.
- Enhancing students' analytical and communication competencies.
- Promoting sustained academic cooperation through future joint research and projects.

Overall, this collaboration demonstrated that international academic mobility can be effective, inclusive, and environmentally sustainable through virtual implementation—serving as a model for green internationalization practices and future regional partnerships within higher education.

MoU :

Universiti Pendidikan Sultan Idris (UPSI, Malaysia
https://drive.google.com/file/d/1x984HM604Rr8UimuTqdu0SoUATKFFlcv/view?usp=sharing

Documentation & Report Program :
https://drive.google.com/file/d/1mtohAvUSU2XcPtRVc-yS65aKztaRkavK/view?usp=sharing

12. Join International Conferrence

Poster :



Program : The 8th English Language and Literature International Conference (ELLIC) 2025"

Theme: *"Sustainable Futures for Language Learning, Linguistics, Literature, and Translation."*

Description :

The 8th ELLIC 2025 is an annual international academic forum that brings together scholars, researchers, educators, and students from various countries to exchange ideas, research findings, and innovations in the fields of language education, linguistics, literature, and translation studies.

The conference emphasizes sustainability in humanities and education, reflecting global awareness of how language and culture can support sustainable futures. It aims to promote academic collaboration, interdisciplinary research, and responsible technological integration in language and literary studies.

Key discussion areas included:

- Sustainable pedagogies in language teaching
- Multilingualism and cultural diversity
- Innovation and technology in language learning
- Emerging issues in linguistics and applied linguistics
- Eco-literature and cultural sustainability
- Digital literature and translation studies
- Critical discourse and social change

Program Objectives:

1. Provide a platform for international academic exchange and publication.
2. Strengthen global research collaboration in humanities and social sciences.
3. Address issues of sustainability, cultural diversity, and ethical technology integration in education.
4. Support the internationalization of UNIMUS and its academic community.

Speakers:

1. Assoc. Prof. Hui Ping Wei, Ph.D. – Macao University of Science and Technology, Macau
2. Assoc. Prof. Stuart Cooke, Ph.D. – Griffith University, Australia

3. Assoc. Prof. Dr. Siti Aimah, M.Pd. – Universitas Muhammadiyah Semarang, Indonesia
4. Dr. John R. Baker – Ho Chi Minh City University of Industry and Trade, Vietnam

Participants:

- 90 presenters in total: 78 from Indonesia and 12 from abroad (Iraq and Thailand).
- The participants included academics, researchers, teachers, translators, and students, both presenters and observers.

Significance:

The 8th ELLIC 2025 successfully served as a platform for international collaboration and intellectual exchange, expanding UNIMUS's academic reputation in Southeast Asia. It reinforced the university's commitment to fostering intercultural dialogue, research sustainability, and digital innovation in education.

MoU :

Ho Chi Minh City University of Industry and Trade, Vietnam

https://drive.google.com/file/d/1_OPSziMlB3p3aiK55vTTLRQyjvWQ3m_y/view?usp=drive_link

Documentation & Report Program :

https://drive.google.com/file/d/1MEzrHHw6jD5VjtAbdox7ow7PUAxrFErC/view?usp=sharing

13. International Visiting Professor

Poster :



Program :
International Visiting Professor hosted by Faculty of Economic, Law and Business – Universitas Muhammadiyah Semarang. The theme is Business Sustainability and Community Empowerment.

Description :

International Visiting Professor Program: "Business Sustainability and Community Empowerment"

As part of its commitment to strengthening international academic collaboration and promoting sustainability-oriented education, the Faculty of Economics, Law, and Business (FEHBI), Universitas Muhammadiyah Semarang (UNIMUS), organized an **International Visiting Professor Program** featuring **Prof. Minako Sakai from the University of New South Wales (UNSW), Australia**. The event was held on **2 June 2026** at the 8th Floor Hall of GKB II, Universitas Muhammadiyah Semarang.

The program focused on the theme **"Business Sustainability and Community Empowerment,"** providing participants with valuable insights into sustainable business practices, inclusive economic development, and the role of higher education institutions in fostering community resilience. Through academic lectures, discussions, and knowledge-sharing sessions, participants explored strategies for integrating sustainability principles into business operations while empowering local communities through participatory and equitable development approaches.

The activity served as a platform for international knowledge exchange, enhancing participants' understanding of contemporary sustainability challenges and innovative solutions that contribute to long-term social, economic, and environmental well-being. Furthermore, the program strengthened academic networking between UNIMUS and UNSW, supporting the university's internationalization agenda and fostering future opportunities for research collaboration and global engagement.

Benefits and Impact

This activity generated several significant benefits for students, academics, and the broader community, including:

1. **Enhancing Sustainability Literacy**
   Participants gained a deeper understanding of sustainable business models and their contribution to environmental protection, social inclusion, and economic resilience.
2. **Strengthening Community Engagement**
   The discussion highlighted practical approaches to community empowerment, encouraging stakeholders to actively participate in sustainable development initiatives and local capacity-building programs.
3. **Promoting International Academic Collaboration**
   The involvement of an international scholar facilitated cross-cultural learning, academic networking, and opportunities for future collaborative research and educational activities.
4. **Supporting Sustainable Development Practices**
   The knowledge shared during the program encouraged the adoption of responsible business strategies that balance economic growth with social and environmental considerations.

Contribution to the Sustainable Development Goals (SDGs)

The International Visiting Professor Program contributes directly to several United Nations Sustainable Development Goals (SDGs), particularly:

- **SDG 4 – Quality Education**
  By providing access to international expertise and fostering knowledge exchange, the program enhances the quality of higher education and promotes lifelong learning opportunities.

- **SDG 8 – Decent Work and Economic Growth**
  The discussion on sustainable business practices supports inclusive and sustainable economic growth, productive employment, and responsible entrepreneurship.
- **SDG 11 – Sustainable Cities and Communities**
  The emphasis on community empowerment contributes to building inclusive, resilient, and sustainable communities through participatory development approaches.
- **SDG 17 – Partnerships for the Goals**
  The collaboration between UNIMUS and UNSW demonstrates the importance of international partnerships in advancing education, research, and sustainable development initiatives.

Conclusion

The International Visiting Professor Program with Prof. Minako Sakai represents UNIMUS's ongoing commitment to advancing sustainability, internationalisation, and community engagement. By integrating global perspectives on business sustainability and community empowerment, the activity contributes to the achievement of the SDGs while strengthening the university's role as a catalyst for sustainable development at local, national, and international levels.

Link :

- https://www.instagram.com/p/DZGriEgE0Ft/?img_index=1
- https://www.klikers.id/read/blogger/global-review-blogger/kewirausahaan-sosial-dinilai-jadi-kunci-pemberdayaan-masyarakat-prof-minako-sakai-soroti-peran-nilai-agama-dan-komunitas/
- https://www.paradigma.co.id/news/1167408390/unimus-hadirkan-prof-minako-sakai-dorong-mahasiswa-bangun-bisnis-berdampak-sosial
- https://drive.google.com/drive/folders/1c7k6WF8INcO8PApcaa2SA32IP23xQire?usp=drive_link

14. International General Lecture

Poster :



Program :
International General Lecture: "Leveraging Data Science and High-End Technology in Conserving Marine Biodiversity" hosted by Marine Science Study Program – Universitas Muhammadiyah Semarang

Description :

International General Lecture: "Leveraging Data Science and High-End Technology in Conserving Marine Biodiversity"

Universitas Muhammadiyah Semarang (UNIMUS) organized an International General Lecture entitled *"Leveraging Data Science and High-End Technology in Conserving Marine Biodiversity"* as a collaborative initiative between the Marine Science and Statistics programs. The event featured Assoc. Prof. Dr. Muhammad Hafiz bin Borkhanuddin from Universiti Malaysia Terengganu, Malaysia, and Muhammad Danie Al Malik, M.Si from the Diponegoro Biodiversity Project.

The lecture explored the role of data science, advanced technologies, and biodiversity analytics in supporting marine conservation efforts. Participants gained insights into how technological innovation can enhance environmental monitoring, data-driven decision-making, and the sustainable management of marine ecosystems. The activity also fostered international academic exchange and interdisciplinary collaboration among students, researchers, and academics.

Benefits and Impact

- Enhancing knowledge and awareness of marine biodiversity conservation.
- Promoting the application of data science and advanced technology in environmental management.
- Expanding international academic collaboration and knowledge exchange.
- Encouraging innovation to support sustainable environmental solutions.

Contribution to the Sustainable Development Goals (SDGs)

This activity supports several SDGs, including:

- SDG 4 – Quality Education: Providing access to international expertise and contemporary scientific knowledge.
- SDG 9 – Industry, Innovation and Infrastructure: Promoting technological innovation and data-driven approaches for sustainability.
- SDG 13 – Climate Action: Supporting scientific efforts to address environmental and climate-related challenges.
- SDG 14 – Life Below Water: Contributing directly to marine biodiversity conservation and sustainable ocean management.
- SDG 17 – Partnerships for the Goals: Strengthening international cooperation between higher education institutions and research stakeholders.

Conclusion

This International General Lecture demonstrates UNIMUS's commitment to sustainability, innovation, and global engagement. Through discussions on data science and marine conservation, the activity contributes to environmental awareness, scientific advancement, and the achievement of the Sustainable Development Goals.

Link :

- https://www.suaramerdeka.com/pendidikan/0417141794/pendataan-keanekaragaman-hayati-nusantara-diperlukan-pahami-tantangan-dunia-kelautan-indonesia
- https://www.instagram.com/p/DYjCCTsmrqj/?img_index=1
- https://drive.google.com/drive/folders/1TWEcpa7WMI7KDs2A7B-SxAF8G8HJ-j4l?usp=sharing

15. Hosting Appointment for the 10th Annual Meeting of the Asian Society of Cryosurgery (ASC) 2026, China

Poster :



Program :
Hosting Appointment for the 10th Annual Meeting of the Asian Society of Cryosurgery (ASC) 2026, China

Description :

Hosting Appointment for the 10th Annual Meeting of the Asian Society of Cryosurgery (ASC) 2026

Universitas Muhammadiyah Semarang (UNIMUS) was officially appointed as the host institution for the 10th Annual Meeting of the Asian Society of Cryosurgery (ASC) and its global consortium in 2026. The appointment was announced during the 9th Annual Meeting of the Asian Society of Cryosurgery held in Guangzhou, China, and attended by leading cryosurgery experts, researchers, and medical professionals from various countries. This appointment reflects international recognition of UNIMUS's growing contribution to medical research, innovation, and global academic collaboration. It also strengthens the university's role in facilitating international scientific exchange and advancing healthcare innovation, particularly in the field of cancer treatment and cryosurgery.

Benefits and Impact

- Strengthening UNIMUS's international reputation and academic visibility.
- Expanding global research and professional networks in healthcare and medical innovation.
- Promoting knowledge exchange and international collaboration among researchers and practitioners.

- Supporting the development of advanced medical technologies and cancer treatment research.

Contribution to the Sustainable Development Goals (SDGs)

- SDG 3 – Good Health and Well-being: Supporting advancements in medical research and innovative healthcare solutions.
- SDG 4 – Quality Education: Enhancing international scientific learning and knowledge sharing.
- SDG 9 – Industry, Innovation and Infrastructure: Encouraging innovation in medical technology and research.
- SDG 17 – Partnerships for the Goals: Strengthening international partnerships among universities, hospitals, and professional organizations.

Conclusion

The appointment of UNIMUS as the host of the 10th Annual Meeting of the Asian Society of Cryosurgery 2026 demonstrates the university's growing international recognition and commitment to advancing global collaboration, medical innovation, and sustainable development in healthcare.

Link :

- https://www.instagram.com/p/DSjSewtE0Ec/?img_index=1
- https://unimus.ac.id/unimus-ditunjuk-sebagai-tuan-rumah-pertemuan-tahunan-ke-10-konsorsium-asosiasi-cryosurgery-asia-dan-dunia-tahun-2026/

16. International Expert Lecture

Poster :



Program :
International Expert Lecture entitled “Future of Smart Green Energy.” The event brought together distinguished speakers from the United Arab Emirates, Timor-Leste, and Indonesia to share global perspectives on the development of smart, sustainable, and innovative energy systems.

Description :
International Expert Lecture entitled “Future of Smart Green Energy.” The event brought together distinguished speakers from the United Arab Emirates, Timor-Leste, and Indonesia to share global perspectives on the development of smart, sustainable, and innovative energy systems.

A Global Learning Platform
This lecture served as an inspiring platform for students to broaden their understanding of emerging technologies in smart energy, renewable energy integration, and sustainable engineering practices. Through international academic exchange, participants gained valuable insights into how technological innovation can address global energy challenges while supporting environmental sustainability.
Supporting the Sustainable Development Goals (SDGs)
The activity directly contributes to several SDGs, particularly:

1. SDG 4 – Quality Education
   by providing international learning experiences and strengthening students’ competencies in future-oriented engineering fields.
2. SDG 7 – Affordable and Clean Energy
   through discussions on smart energy technologies and sustainable energy solutions.
3. SDG 9 – Industry, Innovation, and Infrastructure
   by encouraging research collaboration and technological innovation in electrical engineering.
4. SDG 13 – Climate Action
   through the promotion of green energy initiatives that support efforts to mitigate climate change.

Advancing UI GreenMetric Commitments
The lecture also aligns with the principles of UI GreenMetric World University Rankings, particularly in the areas of education, research, and sustainability engagement. By integrating discussions on renewable energy, smart technologies, and environmental responsibility into academic activities, UNIMUS demonstrates its commitment to fostering a campus culture that supports sustainable development and green innovation.
With the spirit of “Smart Innovation for a Green Future,” UNIMUS continues to strengthen its role in preparing globally competitive graduates who are capable of contributing actively to the advancement of sustainable energy and environmental stewardship.

Link :

- https://www.instagram.com/p/DP0NRi7kzro/?img_index=7

17. International Conferrence

Poster :



Program :

Universitas Muhammadiyah Semarang (UNIMUS) successfully hosted the 1st International Conference on Food Sustainability and Data Science (ICD4SS) on 3–4 October 2025.

Description :

1st International Conference on Food Sustainability and Data Science (ICD4SS)

Universitas Muhammadiyah Semarang (UNIMUS) successfully hosted the 1st International Conference on Food Sustainability and Data Science (ICD4SS) on 3–4 October 2025. Supported by funding from the European Union, the conference brought together distinguished experts in food science and sustainability from Belgium, Portugal, Ireland, Germany, and Indonesia to exchange knowledge, research findings, and innovative solutions for addressing contemporary food system challenges.

The conference served as a strategic academic platform to strengthen international collaboration in sustainable food technology, data-driven research, and innovation. Through interdisciplinary discussions and scholarly engagement, ICD4SS fostered meaningful partnerships between global researchers and Indonesian academics, contributing to the development of resilient and sustainable food systems for future generations.

Supporting the Sustainable Development Goals (SDGs)

The conference demonstrates UNIMUS' commitment to advancing the United Nations Sustainable Development Goals, particularly:

- SDG 2 – Zero Hunger, by promoting research and innovation aimed at enhancing food security, food quality, and sustainable food production systems.

- SDG 4 – Quality Education, through international academic exchange, capacity building, and knowledge dissemination among students, researchers, and professionals.
- SDG 9 – Industry, Innovation and Infrastructure, by encouraging the integration of data science and technological innovation into food research and development.
- SDG 12 – Responsible Consumption and Production, through discussions on sustainable food processing, resource efficiency, and environmentally responsible food systems.
- SDG 17 – Partnerships for the Goals, by strengthening international research networks and fostering cross-border collaboration among universities, industries, and policymakers.

Advancing UI GreenMetric Commitments

The conference also aligns closely with the objectives of the UI GreenMetric World University Rankings, particularly in the areas of Education and Research, Sustainability Engagement, and Innovation for Environmental Responsibility. By promoting scientific dialogue on sustainable food systems, resource-efficient technologies, and evidence-based policymaking, ICD4SS reinforces UNIMUS' commitment to embedding sustainability principles within higher education, research, and community impact.

As a globally connected institution, UNIMUS continues to serve as a catalyst for transformative research and international cooperation, driving innovations that support sustainable food ecosystems and contribute to a greener, more resilient future.

Link :

- https://www.instagram.com/p/DPWDGwKDqiM/
- https://www.instagram.com/p/DPV7fSWiGkK/?img_index=5
- https://unimus.ac.id/unimus-bekerjasama-dengan-find4s-gelar-konferensi-internasional-bahas-ketahanan-pangan/

sustainabilityTemplate for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education & Research

[6.15] Number of sustainability community services projects organised and/or involving students (ED.8)

Project name	Participants	Project duration	Project area
Enhancing the Welfare of the Budan Hamlet Farmers Group in Wonosobo Regency Through Coffee Bean Processing and Digital Marketing	9	8 months	SI, EC, WS, WR, TR, ED
Strengthening Renewable Energy Self-Reliance in Margohayu Village, Demak, Through Eco-Friendly Technology	12	8 months	SI, EC, WS, WR, TR, ED
Implementing a Cloud-Based Partnership Information System to Improve Affordability and Accessibility for Aisyiyah MSMEs in Central Java	9	8 months	SI, EC, WS, WR, TR, ED
Enhancing Adolescent Reproductive Health Through Healthy Peer Groups in Dili, Timor-Leste	19	4 months	SI, EC, WS, WR, TR, ED
Fostering Community Creativity Through 3D Modeling and 3D Printing Technologies	12	4 months	SI, EC, WS, WR, TR, ED
Dental Health and Radiation Hazard Education for Children of Migrant Workers in Peninsular Malaysia	21	4 months	SI, EC, WS, WR, TR, ED
Cultivating an Entrepreneurial Mindset and Spirit among Children at the Indonesian School Kuala Lumpur (SIKL)	11	4 months	SI, EC, WS, WR, TR, ED
Teacher Training to Support the Psychomotor Development of Children of Migrant Workers in Malaysia	13	4 months	SI, EC, WS, WR, TR, ED
Healthy Breakfast Education to Help Reduce Obesity among Students at Universitas Muhammadiyah Semarang and Universiti Kebangsaan Malaysia	12	4 months	SI, EC, WS, WR, TR, ED
Education on Nusantara Food Diversity and the Role of Nutritional Value in Health	21	4 months	SI, EC, WS, WR, TR, ED
Improving Knowledge of the Risks and Prevention of Mycobacterium tuberculosis Infection to Support Pulmonary TB Control in the Tasik Perdana Community, Kuala Lumpur, Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Enhancing Knowledge of Healthy and Halal Food at SB Sentul, Indonesian School Kuala Lumpur (SIKL), Malaysia	14	4 months	SI, EC, WS, WR, TR, ED
“PROEDU Plus” as a Preventive Solution for Chronic Kidney Disease in Children at the Indonesian School Guidance Center, Kuala Lumpur, Malaysia	13	4 months	SI, EC, WS, WR, TR, ED
Increasing Immigrant Communities’ Knowledge of Healthy Food Processing Using Agro-Marine Products in Malaysia	21	4 months	SI, EC, WS, WR, TR, ED
Developing Healthy Habits Early Through Clean and Healthy Lifestyle Behavior (PHBS) among Children at Sanggar Belajar	14	4 months	SI, EC, WS, WR, TR, ED

Penang, Malaysia			
Introducing Indonesian Traditional House Architecture Through Drawing and Coloring Activities at Sekolah Indonesia Kuala Lumpur	13	4 months	SI, EC, WS, WR, TR, ED
A Financial Literacy Model for Indonesian Migrant Children in Malaysia	11	4 months	SI, EC, WS, WR, TR, ED
Applying a Character Education Model in English Learning at Sentul Learning Center, Kuala Lumpur, Malaysia	13	4 months	SI, EC, WS, WR, TR, ED
International Community Service on the Use of Mobile-Assisted Language Learning (MALL) for Immigrant Students in Malaysia	21	4 months	SI, EC, WS, WR, TR, ED
Training to Enhance Personal Financial Management Through Smart Islamic Financial Literacy for Students at the Indonesian School Kuala Lumpur (SIKL), Malaysia	21	4 months	SI, EC, WS, WR, TR, ED
Peer Empowerment in Adolescent Reproductive Health for Managing Menstrual Pain Through Progressive Muscle Relaxation and Dysmenorrhea Exercises	9	4 months	SI, EC, WS, WR, TR, ED
Assessing Nutritional Status to Prevent and Detect Nutritional Problems Early at Sanggar Belajar (SB) Sentul and Segambut, Kuala Lumpur	15	4 months	SI, EC, WS, WR, TR, ED
Strengthening Nationalism Character Education and Quantitative Data Analysis at At-Tanzil Learning Class, Kampung Lindung, Selangor, Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Indonesian Language and Cultural Literacy for Indonesian Children at Sanggar Belajar Gambut, Kuala Lumpur, Malaysia	24	4 months	SI, EC, WS, WR, TR, ED
Education and Measurement of Herbal Use Frequency Effects on Quality of Life Using the EQ-5D-5L Method at Indonesian Schools in Kuala Lumpur, Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Strengthening Indonesian Language and Cultural Literacy Through Folktales and Traditional Games	12	4 months	SI, EC, WS, WR, TR, ED
Health Education on Junk Food and Its Risks to Children's Health	9	4 months	SI, EC, WS, WR, TR, ED
Community Service to Improve Knowledge of Electrical Energy Efficiency and Occupational Safety	19	4 months	SI, EC, WS, WR, TR, ED
Interactive Learning Media to Optimize Instruction at Sanggar Belajar in Malaysia	12	4 months	SI, EC, WS, WR, TR, ED
Developing Children's Character Through Indonesian Cultural Exploration at the Ami Al-Rahmah 2 Guidance Center, Penang, Malaysia	21	4 months	SI, EC, WS, WR, TR, ED
Enhancing Breastfeeding Knowledge and Practices in Indonesian Schools in Kuala Lumpur	11	4 months	SI, EC, WS, WR, TR, ED
Education on Hydrogel Use for Ornamental Plant Cultivation to Foster Environmental Awareness from an Early Age	9	4 months	SI, EC, WS, WR, TR, ED
Socialization of Traffic Safety	21	4 months	SI, EC, WS, WR, TR, ED
Excellence in Data Visualization: A Google Data Studio Workshop at Sekolah Indonesia Kuala Lumpur	9	4 months	SI, EC, WS, WR, TR, ED
Student-Care Permitha: Mental Health Support Services for International Students in Thailand	15	4 months	SI, EC, WS, WR, TR, ED
Using Booklets as Educational Media to Prevent Postpartum Depression at Ngesrep Community Health Center, Semarang	9	4 months	SI, EC, WS, WR, TR, ED

Introducing Simple Breadfruit-Based Food Processing Technology for Breadfruit Seedling Assistance Recipients in Semarang	24	4 months	SI, EC, WS, WR, TR, ED
Training Midwives in the Rebozo Technique in Semarang City	9	4 months	SI, EC, WS, WR, TR, ED
Strengthening Village Cadres' Capacity to Conduct Community Oral Health Surveillance in Kalirejo Village, Temanggung Regency	12	4 months	SI, EC, WS, WR, TR, ED
HarDiK: Community Service in Kebonagung Village for Enhancing Literacy Skills	9	4 months	SI, EC, WS, WR, TR, ED
PPC Coaching Clinic, Massage, and Kinesiotaping for Coaches and Students of SSB SKB Salatiga City	19	4 months	SI, EC, WS, WR, TR, ED
Dissemination of Physical Education Teaching Materials Integrated with Al-Islam Kemuhammadiyahan and Arabic Language in Muhammadiyah Elementary Schools	12	4 months	SI, EC, WS, WR, TR, ED
Innovation of Interactive Learning Media Through Educational Games	21	4 months	SI, EC, WS, WR, TR, ED
Assistance for the Construction of the Tamansari Hills Multipurpose Field in Mangunharjo Subdistrict, Tembalang District, Semarang	11	4 months	SI, EC, WS, WR, TR, ED
Optimizing Community Use of Online Registration Services in the Bangetayu Community Health Center Work Area	13	4 months	SI, EC, WS, WR, TR, ED
Workshop on the Effects of Price, Location, and Promotion on Consumer Purchase Interest at Semarang Batik 16	12	4 months	SI, EC, WS, WR, TR, ED
Enhancing Digital Skills of SMAN 01 Kembang Students Through Google Form Development and Data Analysis	21	4 months	SI, EC, WS, WR, TR, ED
Mentoring on Safe and Halal Food Management at the Canteen of Muhammadiyah 1 Senior High School Semarang	9	4 months	SI, EC, WS, WR, TR, ED
Using Pop-Up Books as Educational Media for Emotional Validation Related to Mental Health Issues in Preschool Children	14	4 months	SI, EC, WS, WR, TR, ED
Improving Nurses' Knowledge and Skills and Family Participation in Neonatal Pain Management in Perinatology	13	4 months	SI, EC, WS, WR, TR, ED
Reducing Stroke Risk Factors and Assessing Quality of Life with EQ-5D-5L among UNIMUS Primary Clinic Gymnastics Through Interval Walking Training	21	4 months	SI, EC, WS, WR, TR, ED
Enhancing Women's Active Roles Through the PELITA DESA Program (Women Driving Technology and Information Literacy in the Village) to Strengthen Women's Empowerment in Bergas Kidul Village	14	4 months	SI, EC, WS, WR, TR, ED
Improving the Quality and Competence of Teachers and Education Staff at Muhammadiyah Susukan Vocational School, Semarang Regency, Through Electrical Occupational Safety and Health Training	13	4 months	SI, EC, WS, WR, TR, ED
Enhancing Adolescents' Creativity Through the Canva Application	11	4 months	SI, EC, WS, WR, TR, ED
Nutrition Education and Healthy Breakfast Preparation for Students to Reduce Overnutrition at State Senior High School 4 Semarang	13	4 months	SI, EC, WS, WR, TR, ED
Education on Routine Hematology Examination and Blood Type	21	4 months	SI, EC, WS,

Testing Practice for Students of SMP N 29 Semarang			WR, TR, ED
Optimizing Reproductive Health among Working Women of Reproductive Age Through Education and Health Services at CV Enterna Semarang	9	4 months	SI, EC, WS, WR, TR, ED
Education on Stretching to Prevent Excessive Weight Gain and Maintain Regular Menstrual Cycles for Female Students at KH. Sahlan Rosjidi Islamic Boarding School, UNIMUS	21	4 months	SI, EC, WS, WR, TR, ED
Improving PCPM NA Genuk Cadres' Skills in Corpse Care to Prevent Infectious Disease Transmission	9	4 months	SI, EC, WS, WR, TR, ED
Enhancing Pregnant Women's Understanding of Stunting and Oral Health in Tlahap Village, Temanggung	15	4 months	SI, EC, WS, WR, TR, ED
Training Dental Health Cadres to Recognize Oral and Dental Diseases in Kwadungan Village, Gunung Temanggung	9	4 months	SI, EC, WS, WR, TR, ED
Exploring Digital Potential Through Information Technology Training for Grade XI Students of SMA 1 Kembang, Jepara	24	4 months	SI, EC, WS, WR, TR, ED
Training Dental Health Cadres in Simple Oral and Dental Examination in Kwadungan Jurang Village, Temanggung	9	4 months	SI, EC, WS, WR, TR, ED
Utilizing Rambutan (Nephelium lappaceum L.) Peel and Seeds as Remedies for Urinary Tract Infections and Providing Eco-Print Training with Rambutan Leaves	12	4 months	SI, EC, WS, WR, TR, ED
Socialization on the Dangers of Smoking and Prevention of Smoking-Related Diseases among Students of SMP Negeri 29 Semarang	9	4 months	SI, EC, WS, WR, TR, ED
Counseling on Branding Management for the Attaqwa Mosque Funeral Management Unit, Korpri Bulusan Housing Complex, Tembalang, Semarang City	19	4 months	SI, EC, WS, WR, TR, ED
Educating Husbands to Support Postpartum Family Planning in Srondol Village, Semarang City	12	4 months	SI, EC, WS, WR, TR, ED
Darul 'Ahdi Wa Syahadah as an Effort to Strengthen Pancasila Student Profiles at SMK Muhammadiyah 1 Semarang City	21	4 months	SI, EC, WS, WR, TR, ED
Optimizing Health Cadres' Roles in Oral and Dental Health Through Primary Service Integration in Petarangan Village, Temanggung Regency	11	4 months	SI, EC, WS, WR, TR, ED
Education on Early Emergency Management for Infants, Toddlers, and Children in Mangunharjo Village, Semarang City	13	4 months	SI, EC, WS, WR, TR, ED
Optimizing Data Understanding Using Dashboards Through Data Visualization Training for High School Students	12	4 months	SI, EC, WS, WR, TR, ED
Youth Empowerment in Household Waste Management in Kalikayen Village, Semarang	21	4 months	SI, EC, WS, WR, TR, ED
Strengthening Community Partnerships to Process Traditional Herbal Medicine Waste into Sustainable Liquid Organic Fertilizer (POC) in the Jamu Gendong Tourism Village, Semarang City	9	4 months	SI, EC, WS, WR, TR, ED
Raising Stroke Awareness Through In-House Training to Empower Cadres in Preventing Stroke Recurrence	14	4 months	SI, EC, WS, WR, TR, ED
Sharia Financial Planning Assistance Using the MyIFPE Syariah Application for the Patchwork Business of the Elderly Group (Poksila) Mekar Indah RW 19, Muktiharjo Kidul Village, Semarang City	13	4 months	SI, EC, WS, WR, TR, ED
Optimizing Support for Prospective Brides and Grooms to	21	4 months	SI, EC, WS,

Prevent Chronic Energy Deficiency (CED) in Pregnant Women			WR, TR, ED
Guidance on Hajj and Umrah Rituals Through Role-Playing and Educational Media for Teachers at Muhammadiyah Pucang Gading Vocational and Junior High Schools	14	4 months	SI, EC, WS, WR, TR, ED
Quran Reading and Writing (BTQ) Training for Support Staff, Including Security Guards, Drivers, and Office Boys	13	4 months	SI, EC, WS, WR, TR, ED
Empowering Families and Schools to Decrease Anemia among Students of Muhammadiyah 1 Senior High School Semarang	11	4 months	SI, EC, WS, WR, TR, ED
Implementing "SAMURI" to Detect Oral Cavity Lesions among Elderly Smokers in Kledung Village, Temanggung Regency	13	4 months	SI, EC, WS, WR, TR, ED
Optimizing Health Cadres' Roles in Improving Oral and Dental Health Through Health Promotion in the Paponan Village Community, Temanggung Regency	21	4 months	SI, EC, WS, WR, TR, ED
Interactive Learning Innovation: Introducing Types of Waste to Elementary School Children Through Game-Based Media	10	4 months	SI, EC, WS, WR, TR, ED
Empowering Women to Recycle Organic and Inorganic Waste in RW 12, Pedurungan Tengah Subdistrict	13	4 months	SI, EC, WS, WR, TR, ED
Petanque Rules Coaching Clinic for Petanque Coaches and Athletes in Pati Regency	9	4 months	SI, EC, WS, WR, TR, ED
Utilizing Used PVC Pipe Waste as Interior Ornaments to Increase the Economic Value of Unused Materials	21	4 months	SI, EC, WS, WR, TR, ED
Menstrual Personal Hygiene Education at the 'Aisyiyah Pucang Gading Girls' Orphanage	9	4 months	SI, EC, WS, WR, TR, ED
Socialization on Household Waste Utilization as Organic Fertilizer as an Expression of Love for the Homeland Through Dasa Wisma Gajah Biro RT 10 RW 06 Activities in Mangunharjo Village, Tembalang District, Semarang City	15	4 months	SI, EC, WS, WR, TR, ED
Raising Awareness among Semarang Coastal Communities About Waste Management to Preserve Coastal and Marine Sustainability	9	4 months	SI, EC, WS, WR, TR, ED
"SMART VILLAGE": A Web-Based Population Service Information System for Kumpulrejo Village, Kendal Regency	9	8 months	SI, EC, WS, WR, TR, ED
Smart Village Application for Enhancing Government Services in Katonsari Village, Demak	12	8 months	SI, EC, WS, WR, TR, ED
Empowering Posyandu Cadres to Optimize the Use of KIA Books by Parents and Cadres Through the Mentorship Learning Method	9	8 months	SI, EC, WS, WR, TR, ED
Utilizing Shrimp Processing By-Products as Natural Seasoning for the Shrimp Fishermen Group in Tambak Rejo Village, Gayamsari District, Semarang City	19	8 months	SI, EC, WS, WR, TR, ED
Socialization on Using Lemongrass Leaves and Orange Peels to Repel Aedes aegypti Mosquitoes for Students of SD Negeri Dombo 1 Sayung	12	4 months	SI, EC, WS, WR, TR, ED
Education and Mentoring on Weight Training for FORKI Athletes in Jepara Regency	21	4 months	SI, EC, WS, WR, TR, ED
Preventing Stunting in Infants and Toddlers Through Healthy Menu Preparation Training in Bandarharjo Village, Semarang City	11	4 months	SI, EC, WS, WR, TR, ED
Economic Empowerment of Coastal Communities Through Diversification of Marine Products in Tanjung Mas Village, North	13	4 months	SI, EC, WS, WR, TR, ED

Semarang			
An Expert System to Support Orderly Population Administration in Katonsari Village, Demak District, Demak Regency, Using the Forward Chaining Method	12	4 months	SI, ED
Optimizing the Use of Corn Thresher Technology to Improve Post-Harvest Productivity in Meteseh	21	4 months	SI, WS, WR, ED
Enhancing Ecoprint Batik-Making Skills among Women Members of the Mekar Makmur Farmers Group in Krapyak Village, Semarang	9	4 months	WS, WR, ED
Increasing Knowledge and Providing Assistance in Producing Cereal from Functional Food Ingredients for Toddlers with Stunting in the Aisyiyah Kowangan Group	14	4 months	SI, ED
Demographic Profiling and Visualization of Population Data Diagrams for Katonsari Village, Demak District, Demak Regency	13	4 months	SI, ED
Training PKK Mothers to Make Rope Craft Products to Increase Household Productivity	21	4 months	WS, ED
Enhancing Awareness of Reproductive Organ Health among Female Students at Al Mabrur Islamic Boarding School	14	4 months	ED
Strengthening the Capacity of Muhammadiyah Susukan Vocational School Teachers in Semarang Regency to Use PhET Virtual Laboratory Media for Electrical Circuit Materials	13	4 months	SI, WS, ED
Kindergarten Teacher Training on Strengthening Mathematics Teaching Aids for Young Learners	11	4 months	SI, ED
Counseling on the Management of the At-Taqwa Mosque Funeral Institution, Korpri Housing Complex, Bulusan, Tembalang, Semarang City	13	4 months	ED
Improving Families' Burden and Stress Management Skills Through Family Psychoeducation for Chronic Illness Patients at Kendal Hospital	21	4 months	ED
Differentiated Learning Community Service Program to Support Independent Learning among Al Hikmah Elementary/Islamic Elementary School Teachers in Semarang	9	4 months	SI, ED
Measuring Quality of Life Using the SS-QOL Method and Providing Sang Surya Gymnastics Training to Improve Elderly Independence in Stroke Prevention at the UNIMUS Primary Clinic	21	4 months	TR, ED
PKM for the Sports Injury Massage Clinic Therapist Group at Seger Waras Semarang to Improve English Communication Skills	9	4 months	ED
PKM for Teachers and Students of ABA 04 Wonodri Kindergarten on Language Literacy Education and Children's Dental Health	15	4 months	ED
Empowering Cadres to Manage Antenatal Care for Pregnant Women with Back Pain Through Progressive Muscle Relaxation and Acupressure at BL 23 and GV 3 Points	9	4 months	ED
Health Education and Breast Self-Examination Practice as Early Breast Cancer Prevention for Adolescent Girls at Al Mabrur Islamic Boarding School, Semarang	24	4 months	ED
Youth-Care Health Services Through Trias UKS to Improve Student Health at SMKN 3 Kendal	9	4 months	ED

Authoritative Parenting Practices to Develop Basic Discipline and Responsibility in Early Childhood	12	4 months	ED
Revitalizing Reproductive Health Through the Empowerment of Healthy Peer Cadre Groups for Adolescents in Kumpulrejo Village, Kaliwungu, Kendal, Central Java	9	4 months	SI, ED
PKM Training on Writing Sports and Health Opinion Articles for High School Physical Education and Health Teachers in Semarang City	19	4 months	ED
Optimizing the Role of Lerep Village Tourism Awareness Group (Pokdarwis) in Developing Ngangeni Tourism Village, Ungaran Regency	12	4 months	ED
Optimizing Youth Mental Health in Kalikayen Village Through Food Diversification	21	4 months	ED
Empowering Mangunharjo Elementary School Teachers to Develop Literacy and Numeracy Teaching Aids	11	4 months	SI, WS, ED
ECO-Enzyme Branding Training Using Fruit Peels as Organic Waste Utilization at the Aisyiyah Pucang Gading Orphanage	13	4 months	WS, WR, ED
Optimizing Mental Health among Youth in Kalikayen Village Through the “Green Mind, Bright Future” Program	12	4 months	ED
Improving Midwives’ Competence in Midwifery Services Through Credential Management Training at Harapan Anda Islamic Hospital, Tegal City	21	4 months	ED
Enhancing Financial Literacy and Product Marketing Skills at KONNUKU.ID M&M Fashion SMEs	9	4 months	ED
Empowering Posyandu Cadres to Manage and Prevent Stunting in Plamongansari Village	14	4 months	ED
Optimizing the School Health Unit Through the Formation of School Health Cadres at SMPN 19 Semarang	13	4 months	ED
Education on Splint Management and Snakebite First Aid in Gunungsari Tourism Village, Boja	21	4 months	SI, WS, ED
Improving the Quality of Processed Food Products Made by Students of Aisyiyah Islamic Boarding School in Kedungmundu, Semarang	14	4 months	SI, ED
Lactation Classes and Breastfeeding Support for Mothers at Rowosari Community Health Center, Semarang	13	4 months	SI, ED
Utilizing the “Gigit Beras” Pocket Book to Improve Children’s Dental and Oral Health Behavior in the Kedungmundu Community Health Center Work Area, Semarang City	11	4 months	ED
Developing Islamic Financial Technology (I-FINTECH)-Based ZISKA Fundraising Management for Lazismu Amil in Semarang City	13	4 months	SI, ED
Increasing Students’ Reading and Writing Interest at Muhammadiyah Pucang Gading Junior High School, Batursari Village, Mranggen, Demak, Through the One Week One Book Program	21	4 months	ED
Perineal Massage Program for Pregnant Women	19	4 months	ED
Critical Thinking Development Through a Culture-Based Community Service Program for Indonesian Language Learners in Thailand	12	4 months	ED
Development of Community-Based Daycare Services through	35	8 months	ED

Caregiver Training and Digitalization of the Care System at Mawar Posyandu, Tampingan Village			
Strengthening Parents' Capacity to Meet Post-Chemotherapy Nutritional Needs through a Discharge Planning Program to Prevent Malnutrition at the YKAKI Semarang Shelter	20	8 months	ED
Training on Occupational Health and Safety Implementation and Provision of Personal Protective Equipment to Support the Establishment of a Safety Farming Village among Farmer Groups in Batukali Village, Kalinyamatan, Jepara	40	8 months	SI, ED
Empowering Health Cadres in the SIMAK Infection Control Method for Dental and Oral Health Services	28	8 months	ED
Application of a Smart Irrigation System to Improve Chili Plant Irrigation Efficiency among Farmer Groups in Ambarawa, Semarang Regency	46	8 months	SI, WS, TR
Empowerment of Gazebo and Wooden House MSMEs to Accelerate Production Processes in Mangunharjo, Tembalang, Semarang City	16	8 months	SI, TR, ED
Enhancing the Efficiency and Competitiveness of Javanese Tempeh Enterprises through Production Technology Modernization and Product Diversification	20	8 months	ED
Mentoring Program for Resilient Anemia-Free Adolescent Girls as an Effort to Prevent Anemia in Schools	22	8 months	ED
Introducing Architectural Forms to Early Childhood Learners at Gaussian Kamil School Semarang	25	8 months	SI, EC, TR, ED
Exploring the Influence of Virtual Reality Storytelling on Self-Regulation and Decision-Making Skills at National Nihditansu Playgroup as an Effort to Prevent ADHD	12	8 months	SI, TR, ED
Empowering Women Farmer Groups to Optimize Organic Vegetable Production and Digital Marketing toward Food Self-Sufficiency in Karangmalang Village, Semarang City	25	8 months	WS, ED
Strengthening Cadres through the Healthy Kitchen and Food Eco Swap Program as a Stunting Prevention Effort in Villages of Tegalsari, Karanggede District, Boyolali Regency	25	8 months	SI, ED
Integrated Community Empowerment through Processing Diversification, Digital Marketing, and Mapping of Elderly People with Hypertension to Support Food and Health Independence in Glesungrejo Village, Wonogiri	23	8 months	ED
English Goes Mobile: Digital-Era English Learning for Students of Darun Najah Islamic Boarding School in Semarang	9	4 months	ED
Hajj and Umrah Ritual Guidance through Role-Playing Methods and Educational Media for Teachers at Muhammadiyah 01 Weleri High School	9	4 months	ED
Cybersecurity Education for Students to Develop a Digitally Safe School Environment at Muhammadiyah Tahfizh Junior High School in Salatiga	9	4 months	ED
Education on Preventing Hexymer Drug Abuse among Students of State Junior High School 3 Pringapus, Semarang Regency	9	4 months	WS, ED
Development of a Google Sheets-Based Hypertension Patient Recap Form as an Identification Instrument in the Bangetayu Community Health Center Working Area	9	4 months	ED

Green Village Movement: Composting and Waste-Sorting Education and Action toward an Environmentally Friendly Community	9	4 months	WS, ED
Smart Mother Movement: Early Cervical Cancer Detection through IVA and HPV DNA Testing for PKK Mothers in Mangunharjo Village, Semarang	11	4 months	ED
Implementation of Educational Modules to Support Successful Stroke Patient Care and Prevent Recurrent Stroke	20	4 months	ED
Application of a Blockchain-Based Recommendation System for Mitigating Halal Product Certification Services at the Muhammadiyah MSME Development Institute in Semarang City	26	4 months	SI, ED
Improving Population Data Literacy through Infographics and Village Monographs for Posyandu Cadres	39	4 months	SI, ED
Training on Hydroponic Organic Vegetable Cultivation and Farm Business Financial Management in Rowosari, Kendal Regency	35	4 months	WS, ED
Training PMR Cadres as Oral Health Change Agents through a Multimedia Approach and Digitalization of Examination Data at SMA 2 Semarang	9	4 months	ED
Dashboard Development Training to Empower Kangaroo Youth in Gayamsari Village	9	4 months	SI, ED
Training on the Use of Oral Hygiene Tools to Help Reduce Periodontal Disease Rates	25	4 months	WS, ED
Use of Herbal Plants for First Aid in Dental Health Problems	31	4 months	WS, ED
Early Childhood Learning of Architectural Forms at Gaussian Kamil School Semarang	9	4 months	SI, ED
Strengthening Packaging and Label Innovation to Improve the Attractiveness of Herbal Medicine Products among Herbal Medicine Producers in Wonolopo Village	19	4 months	SI, WS, ED
Empowering Elderly Posyandu Cadres through Training on Oral Cavity Infection Prevention	29	4 months	WS, ED
Strengthening Sustainable Traditional Herbal Medicine Business Development through Financial Management and Marketing in Wonolopo, Semarang City	31	4 months	ED
Prevention of Mental Health Disorders among Adolescents in the Digital Era through Education at SMAN 15 Semarang City	26	4 months	ED
Assistance in Producing Ecoenzymes from Fruit and Vegetable Peel Waste and Socialization of Occupational Safety and Health for Aisyiyah Women in the Krapyak Branch, Semarang	35	4 months	WS, ED
Mentoring for Skill and Character Development among Members of the Dragon Fighter Pencak Silat Club in Semarang City	41	4 months	ED
Assistance to Improve the Physical Condition of Semarang City Taekwondo Athletes in Preparation for the 2025 Porprov Qualification Round	23	4 months	SI, EC, WS, WR, TR, ED
Halal Certification Assistance for Canteen Tenants at Unimus	11	4 months	SI, EC, WS, WR, TR, ED
Implementation of the 3R Concept through Islamic Decorative Design Activities Using Recycled Plastic Waste for Early Childhood	14	4 months	SI, EC, WS, WR, TR, ED
Implementation of an IoT-Based Smart Fingerprint Attendance	18	4 months	SI, EC, WS,

System to Support Digital Attendance Management at State Vocational School 1 Tuntang			WR, TR, ED
Household Waste Management through the Development of Waste Banks	19	4 months	SI, EC, WS, WR, TR, ED
Development of Character Education-Based Thematic English Modules for Students of Al Hikmah Elementary School Semarang	13	4 months	SI, EC, WS, WR, TR, ED
Strengthening Preventive Dental Health Services for Children through Cadre Capacity Building and Posyandu Integration in Sendangmulyo Village	21	4 months	SI, EC, WS, WR, TR, ED
Enhancing the Role of Crystal Peer Educators in Improving Adolescent Reproductive Health Literacy among Students	2	4 months	SI, EC, WS, WR, TR, ED
Improving the Accessibility and Inclusiveness of Digital Service-Based Hajj and Umrah Assistance for KBIHU Muhammadiyah Hajj and Umrah Companions in Semarang City	9	4 months	SI, EC, WS, WR, TR, ED
Enhancing the Competitiveness of Women-Owned MSMEs through Smart Value Proposition Strengthening and Digital-Based Financial Management in Nasyiatul Aisyiyah MSMEs in Semarang City	9	4 months	SI, EC, WS, WR, TR, ED
Increasing the Production Capacity and Product Quality of Barokah Snack MSMEs through Oil Spinner Draining Technology	12	4 months	SI, EC, WS, WR, TR, ED
Strengthening the Capacity of Posyandu Cadres in Educating Mothers of Toddlers on Diarrhea Management Using Practical Media	11	4 months	SI, EC, WS, WR, TR, ED
Increasing Awareness of Blood Glucose Fluctuations Caused by High-Fat Food Consumption among SSB Terang Bangsa Athletes	12	4 months	SI, EC, WS, WR, TR, ED
Improving Dental and Oral Health-Related Quality of Life among Students of State Senior High School 15 Semarang	21	4 months	SI, EC, WS, WR, TR, ED
The Role of Nutrition and Stress Management in Maintaining Adolescent Girls' Reproductive Health as an Effort to Prevent Polymenorrhea	9	4 months	SI, EC, WS, WR, TR, ED
Integrated Maternal-Neonatal Counseling on Nutrition for Pregnant Women and Exclusive Breastfeeding to Prevent Stunting	10	4 months	SI, EC, WS, WR, TR, ED
SaRaSeha: A Family-Based Healthy Home Awareness Education Program for Promoting a Healthy Environment	9	4 months	SI, EC, WS, WR, TR, ED
Socialization and Education on Circumcision Awareness Based on Islamic Law and Health Principles for Alumni of SMPN 1 Mranggen Class of 1988	19	4 months	SI, EC, WS, WR, TR, ED
Socialization of Musculoskeletal Disorders for Dentists in Temanggung Regency	9	4 months	SI, EC, WS, WR, TR, ED
Flood Disaster Management Socialization in Sinar Lestari Indah Housing Complex, Kedungmundu Village, Tembalang District, Semarang City	9	4 months	SI, EC, WS, WR, TR, ED
Anti-Stroke Exercise Program for Homeless Communities to Improve Immunity at Ar-Riqab Charity Organization, Kuala Lumpur, Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Early Reproductive Health Education and Healthy Lifestyle Promotion for Adolescents in Orphanages under Al-Haq Malaysia's Welfare and Protection Organization	9	4 months	SI, EC, WS, WR, TR, ED

Health Is Everyone's Right: Clean and Healthy Living Behavior and Sexually Transmitted Infection Prevention Actions for Homeless Communities at Ar-Riqab Charity Organization, Kuala Lumpur, Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Community-Based Prevention of Sexual Predators against Children in the Pilangsari Demak Area	9	4 months	SI, EC, WS, WR, TR, ED
Gema: Anti-Bullying Mission Game-Based Education through Psychoeducational Games for MI Taufiqiyah Students	9	4 months	SI, EC, WS, WR, TR, ED
Innovative Hypertension Education through Combined Warm Water Foot Soak Therapy and Deep Breathing Relaxation to Improve Elderly Well-Being	9	4 months	SI, EC, WS, WR, TR, ED
Guava Snacks: Empowering the Ngargosari Village Community in Kendal through Red Guava Processing Innovation	9	4 months	SI, EC, WS, WR, TR, ED
Building a "Waste Is Money" Mindset among Purwosari Village Communities through Digital-Based Waste Management	9	4 months	SI, EC, WS, WR, TR, ED
KORES: Healthy Adolescent Groups as Pioneers of Mental Health Promotion in Schools	9	4 months	SI, EC, WS, WR, TR, ED
Coding and Artificial Intelligence Training for Elementary and Junior High School Teachers at Al Huda Tumpang Semarang Foundation	9	4 months	SI, EC, WS, WR, TR, ED
Development of Waste Bank Management to Preserve the Environment and Improve Community Economic Welfare in Sendangguwo Village, Tembalang District, Semarang City	12	4 months	SI, EC, WS, WR, TR, ED
Strengthening and Implementing Al-Islam and Muhammadiyah Obligatory Worship Practices for Supporting Staff, Drivers, and Security Guards at UNIMUS	10	4 months	SI, EC, WS, WR, TR, ED
Improving Teacher Competence in Integrating Deep Learning and Outcome-Based Education Based on Ethnomathematics	9	4 months	SI, EC, WS, WR, TR, ED
Socialization of Black Coral Ecology and Conservation for Communities and Stakeholders in Karimunjawa National Park	11	4 months	SI, EC, WS, WR, TR, ED
E-Commerce-Based Marketing Transformation to Increase Sales and Distribution Efficiency for Nusantara Egg-Laying Chicken Farmers in Pageruyung District, Kendal Regency	10	4 months	SI, EC, WS, WR, TR, ED
Early Detection of Child Growth and Development through Nutritional Status Monitoring and Family Education at Aisyiyah Bustanul Athfal Kindergarten in Semarang City	21	4 months	SI, EC, WS, WR, TR, ED
Application of Experiential Learning to Develop Human Resource Soft Skills at Clinica Madre Cecilia Dos Santos, Timor Leste	9	4 months	SI, EC, WS, WR, TR, ED
Financial Education and Piggy Bank-Making Training for SBM Kampung Bharu Malaysia Students	15	4 months	SI, EC, WS, WR, TR, ED
Introduction to Technology and Its Impact on Indonesian Migrant Children in Malaysia	9	4 months	SI, EC, WS, WR, TR, ED
Play for Hope: Education, Development, and Knowledge Building on Balanced Nutrition through the "Fill My Plate" Program at Al-Haq Malaysia's Welfare and Protection Organization	24	4 months	SI, EC, WS, WR, TR, ED

Description:
*Example from University of California, Davis (SI, EC, WS, WR, TR) and University of Chester (ED)

Additional evidence link (e.g. for videos, more images, or other files that are not included in this file):
https://muhammadiyahsolo.com/20250820/hibah-pengabdian-kepada-masyarakat-dosen-unimus-semarang-lahirkan-kader-tangguh-pencegah-anemia-11475

https://unimus.ac.id/dosen-mku-unimus-laksanakan-pengabdian-masyarakat-di-sd-mi-al-hikmah-semarang/

https://www.indonesiana.id/read/192899/program-studi-skmb-unimus-gelar-pengabdian-masyarakat-berbasis-pesantren

https://www.youtube.com/watch?v=vcteXX-DZus

https://www.youtube.com/watch?v=Z_-5DLGE4D8

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.17] Total number of graduates with green jobs (for the last 3 years)

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2023/2024	D3 Nutrition	69	15	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2023/2024	D3 Midwidery	14	0		
2023/2024	D3 Nursing	61	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Alumni Database
2023/2024	D3 Medical Laboratory Technology	85	26	Green Lab Technician; Environmental Monitoring Analyst; Chemical Safety Coordinator	Alumni Survey
2023/2024	D4 Medical Laboratory Technology	260	54	Sustainable Laboratory Manager; Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Tracer Study Report
2023/2024	Medical Surgical Nursing	0	0		
2023/2024	Doctor's Profession	109	0		
2023/2024	Dentist's Profession	33	5	Green Dentistry Practitioner; Sustainable Oral Health Educator; Dental Waste Management Officer	Alumni Survey
2023/2024	Educational of	40	4	Green Curriculum	Alumni

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Midwifery Profession			Developer (Midwifery); Environmental Health Researcher; Sustainable Community Health Trainer	Survey
2023/2024	Educational of Teacher Profession	149	50	Environmental Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Tracer Study Report
2023/2024	Educational of Nursing Profession	183	165	Sustainable Health Education Developer; Green Hospital Trainer; Environmental Health Researcher	Career Center Data
2023/2024	S1 Agribusiness	0	0		
2023/2024	S1 Accounting	78	61	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Alumni Survey
2023/2024	S1 Architecture	0	0		
2023/2024	S1 Nutrition Science	191	64	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Career Center Data
2023/2024	S1 Marine Science	0	0		
2023/2024	S1 Sport Science	0	0		
2023/2024	S1 Nursing Science	242	0		
2023/2024	S1 Informatics	11	9	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Tracer Study Report
2023/2024	S1 Midwifery	60	3	Eco-Maternal Care Specialist; Green Clinic Manager; Community Eco-Health Educator	Career Center Data

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2023/2024	S1 Medicine	167	3	Public Health and Environment Doctor; Sustainable Healthcare Policy Advisor; Eco-Medicine Innovator	Alumni Database
2023/2024	S1 Dentistry	56	3	Sustainable Dental Practice Manager; Dental Waste Reduction Coordinator; Oral Health and Environment Educator	Alumni Database
2023/2024	S1 Public Health	90	44	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Alumni Survey
2023/2024	S1 Management	189	164	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Tracer Study Report
2023/2024	S1 English Education	31	5	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Career Center Data
2023/2024	S1 Chemistry Education	10	2	Green Chemistry Educator; Waste Minimization Trainer; Sustainable Science Curriculum Developer	Alumni Database
2023/2024	S1 Mathematics Education	26	21	Environmental Data Analyst Educator; Green Statistics Developer; SDGs Literacy Trainer	Alumni Survey
2023/2024	S1 Electrical Engineering	57	26	Renewable Energy Engineer: Energy Efficiency Consultant; Smart Grid Developer;	Alumni Survey
2023/2024	S1 Civil Engineering	0	0		
2023/2024	S1 Data Science	0	0		

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2023/2024	S1 English Literature	21	4	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Alumni Database
2023/2024	S1 Statistics	48	25	Environmental Statistician; Climate Risk Analyst; Sustainable Product Designer	Alumni Survey
2023/2024	S1 Mechanical Engineering	116	14	Clean Energy Engineer; Green Manufacturing Engineer;	Tracer Study Report
2023/2024	S1 Information Technology	0	0		
2023/2024	S1 Food Technology	52	23	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Alumni Database
2023/2024	S2 Nutrition Science	0	0		
2023/2024	S2 Medical Laboratory Technology	30	9	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Alumni Survey
2023/2024	S2 Nursing	23	7	Eco-Nursing Researcher; Green Health Policy Developer; Environmental Health Educator	Tracer Study Report
2023/2024	S2 Public Health	0	0		
2024/2025	D3 Nutrition	55	48	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2024/2025	D3 Midwifery	18	13	Eco-Health Midwife; Sustainable Maternal Care Advocate; Medical Waste Reduction Coordinator	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2024/2025	D3 Nursing	88	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Tracer Study Report
2024/2025	D3 Medical Laboratory Technology	199	33	Green Lab Technician; Environmental Monitoring Analyst; Chemical Safety Coordinator	Career Center Data
2024/2025	D4 Medical Laboratory Technology	352	157	Sustainable Laboratory Manager;Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Alumni Database
2024/2025	Medical Surgical Nursing	0	0		
2024/2025	Doctor's Profession	141	23	Environmental Health Doctor; Eco-Medicine Researcher; Sustainable Healthcare Advisor	Alumni Survey
2024/2025	Dentist's Profession	72	20	Green Dentistry Practitioner; Sustainable Oral Health Educator; Dental Waste Management Officer	Tracer Study Report
2024/2025	Educational of Midwifery Profession	67	13	Green Curriculum Developer (Midwifery); Environmental Health Researcher; Sustainable Community Health Trainer	Career Center Data
2024/2025	Educational of Teacher Profession	1354	300	Environmental Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Alumni Database
2024/2025	Educational of Nursing Profession	169	21	Sustainable Health Education Developer; Green Hospital Trainer; Environmental Health Researcher	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2024/2025	S1 Agribusiness	0	0		
2024/2025	S1 Accounting	113	56	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Career Center Data
2024/2025	S1 Architecture	0	0		
2024/2025	S1 Nutrition Science	128	75	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Alumni Survey
2024/2025	S1 Marine Science	0	0		
2024/2025	S1 Sport Science	0	0		
2024/2025	S1 Nursing Science	423	0		
2024/2025	S1 Informatics	22	3	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Alumni Database
2024/2025	S1 Midwifery	42	0		
2024/2025	S1 Medicine	149	0		
2024/2025	S1 Dentistry	64	0		
2024/2025	S1 Public Health	116	58	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Alumni Database
2024/2025	S1 Management	228	36	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Alumni Survey
2024/2025	S1 English Education	37	15	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Alumni Survey
2024/2025	S1 Chemistry Education	23	18	Green Chemistry Educator; Waste Minimization Trainer; Sustainable Science Curriculum Developer	Tracer Study Report
2024/2025	S1 Mathematics	49	35	Environmental Data	Career

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Education			Analyst Educator; Green Statistics Developer; SDGs Literacy Trainer	Center Data
2024/2025	S1 Electrical Engineering	78	14	Renewable Energy Engineer: Energy Efficiency Consultant; Smart Grid Developer;	Alumni Database
2024/2025	S1 Civil Engineering	0	0		
2024/2025	S1 Data Science	0	0		
2024/2025	S1 English Literature	29	19	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Career Center Data
2024/2025	S1 Statistics	120	52	Environmental Statistician; Climate Risk Analyst; Sustainable Product Designer	Alumni Database
2024/2025	S1 Mechanical Engineering	98	21	Clean Energy Engineer; Green Manufacturing Engineer;	Alumni Survey
2024/2025	S1 Information Technology	0	0		
2024/2025	S1 Food Technology	101	30	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Tracer Study Report
2024/2025	S2 Nutrition Science	3	3	Sustainable Food Policy Researcher; Eco-Food Innovation Scientist; Sustainable Diet Policy Analyst	Career Center Data
2024/2025	S2 Medical Laboratory Technology	59	17	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Alumni Database
2024/2025	S2 Nursing	48	8	Eco-Nursing Researcher; Green Health Policy Developer;	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Environmental Health Educator	
2024/2025	S2 Public Health	9	3	Environmental Epidemiologist; Climate Health Policy Expert; Sustainable Health Systems Researcher	Tracer Study Report
2025/2026	D3 Nutrition	55	48	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2025/2026	D3 Midwifery	23	15	Eco-Health Midwife; Sustainable Maternal Care Advocate; Medical Waste Reduction Coordinator	Alumni Database
2025/2026	D3 Nursing	94	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Alumni Survey
2025/2026	D3 Medical Laboratory Technology	199	44	Green Lab Technician; Environmental Monitoring Analyst; Chemical Safety Coordinator	Alumni Survey
2025/2026	D4 Medical Laboratory Technology	352	159	Sustainable Laboratory Manager;Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Tracer Study Report
2025/2026	Medical Surgical Nursing	0	0		
2025/2026	Doctor's Profession	141	28		
2025/2026	Dentist's Profession	72	20		
2025/2026	Educational of Midwifery Profession	67	20	Green Curriculum Developer (Midwifery); Environmental Health Researcher; Sustainable Community Health Trainer	Tracer Study Report
2025/2026	Educational of	1132	80	Environmental	Alumni

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Teacher Profession			Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Database
2025/2026	Educational of Nursing Profession	123	30	Sustainable Health Education Developer; Green Hospital Trainer; Environmental Health Researcher	Alumni Database
2025/2026	S1 Agribusiness	0	0		
2025/2026	S1 Accounting	133	56	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Alumni Survey
2025/2026	S1 Architecture	0	0		
2025/2026	S1 Nutrition Science	128	82	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Alumni Database
2025/2026	S1 Marine Science	0	0		
2025/2026	S1 Sport Science	0	0		
2025/2026	S1 Nursing Science	16	3	Green Hospital Nurse; Environmental Health Advocate; Sustainable Patient Care Coordinator	Tracer Study Report
2025/2026	S1 Informatics	22	3	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Career Center Data
2025/2026	S1 Midwifery	0	0		
2025/2026	S1 Medicine	20	3	Public Health and Environment Doctor; Sustainable Healthcare Policy Advisor; Eco-Medicine Innovator	Alumni Survey
2025/2026	S1 Dentistry	9	3	Sustainable Dental Practice Manager; Dental Waste Reduction Coordinator; Oral	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Health and Environment Educator	
2025/2026	S1 Public Health	116	58	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Tracer Study Report
2025/2026	S1 Management	228	44	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Career Center Data
2025/2026	S1 English Education	37	15	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Alumni Database
2025/2026	S1 Chemistry Education	23	19	Green Chemistry Educator; Waste Minimization Trainer;	Alumni Survey
2025/2026	S1 Mathematics Education	49	35	SDGs Literacy Trainer	Tracer Study Report
2025/2026	S1 Electrical Engineering	78	15	Renewable Energy Engineer: Energy Efficiency Consultant; Smart Grid Developer;	Career Center Data
2025/2026	S1 Civil Engineering	0	0	Sustainable Infrastructure Engineer;Wastewater Treatment Designer; Green Construction Supervisor	Alumni Database
2025/2026	S1 Data Science	0	0		0
2025/2026	S1 English Literature	29	19	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Alumni Survey
2025/2026	S1 Statistics	120	53	Environmental Statistician; Climate Risk Analyst; Sustainable	Tracer Study Report

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Product Designer	
2025/2026	S1 Mechanical Engineering	98	21	Clean Energy Engineer; Green Manufacturing Engineer;	Career Center Data
2025/2026	S1 Information Technology	0	0	0	
2025/2026	S1 Food Technology	101	40	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Alumni Survey
2025/2026	S2 Nutrition Science	3	1	Sustainable Food Policy Researcher;	Tracer Study Report
2025/2026	S2 Medical Laboratory Technology	59	17	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Career Center Data
2025/2026	S2 Nursing	48	8	Eco-Nursing Researcher	Alumni Database
2025/2026	S2 Public Health	2	1	Environmental Epidemiologist	Alumni Survey
Total		**10532**	**2900**		

Description:
(*Please describe total number of graduates with green jobs. The following is an example of the description. You can describe more related items if needed*.)
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://bit.ly/unimusdatatracer

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.18] Total number of graduates (for the last 3 years)

Academic Year	Faculty/Department	Total Graduates
2023/2024	D3 Nutrition	69
2023/2024	D3 Midwidery	14
2023/2024	D3 Nursing	61
2023/2024	D3 Medical Laboratory Technology	85
2023/2024	D4 Medical Laboratory Technology	260
2023/2024	Medical Surgical Nursing	0
2023/2024	Doctor's Profession	109
2023/2024	Dentist's Profession	33
2023/2024	Educational of Midwifery Profession	40
2023/2024	Educational of Teacher Profession	149
2023/2024	Educational of Nursing Profession	183
2023/2024	S1 Agribusiness	0
2023/2024	S1 Accounting	78
2023/2024	S1 Architecture	0
2023/2024	S1 Nutrition Science	191
2023/2024	S1 Marine Science	0
2023/2024	S1 Sport Science	0
2023/2024	S1 Nursing Science	242
2023/2024	S1 Informatics	11
2023/2024	S1 Midwifery	60
2023/2024	S1 Medicine	167
2023/2024	S1 Dentistry	56
2023/2024	S1 Public Health	90
2023/2024	S1 Management	189
2023/2024	S1 English Education	31
2023/2024	S1 Chemistry Education	10
2023/2024	S1 Mathematics Education	26
2023/2024	S1 Electrical Engineering	57
2023/2024	S1 Civil Engineering	0
2023/2024	S1 Data Science	0
2023/2024	S1 English Literature	21
2023/2024	S1 Statistics	48
2023/2024	S1 Mechanical Engineering	116
2023/2024	S1 Information Technology	0

Academic Year	Faculty/Department	Total Graduates
2023/2024	S1 Food Technology	52
2023/2024	S2 Nutrition Science	0
2023/2024	S2 Medical Laboratory Technology	30
2023/2024	S2 Nursing	23
2023/2024	S2 Public Health	0
2024/2025	D3 Nutrition	55
2024/2025	D3 Midwifery	18
2024/2025	D3 Nursing	88
2024/2025	D3 Medical Laboratory Technology	199
2024/2025	D4 Medical Laboratory Technology	352
2024/2025	Medical Surgical Nursing	0
2024/2025	Doctor's Profession	141
2024/2025	Dentist's Profession	72
2024/2025	Educational of Midwifery Profession	67
2024/2025	Educational of Teacher Profession	1354
2024/2025	Educational of Nursing Profession	169
2024/2025	S1 Agribusiness	0
2024/2025	S1 Accounting	113
2024/2025	S1 Architecture	0
2024/2025	S1 Nutrition Science	128
2024/2025	S1 Marine Science	0
2024/2025	S1 Sport Science	0
2024/2025	S1 Nursing Science	423
2024/2025	S1 Informatics	22
2024/2025	S1 Midwifery	42
2024/2025	S1 Medicine	149
2024/2025	S1 Dentistry	64
2024/2025	S1 Public Health	116
2024/2025	S1 Management	228
2024/2025	S1 English Education	37
2024/2025	S1 Chemistry Education	23
2024/2025	S1 Mathematics Education	49
2024/2025	S1 Electrical Engineering	78
2024/2025	S1 Civil Engineering	0
2024/2025	S1 Data Science	0
2024/2025	S1 English Literature	29
2024/2025	S1 Statistics	120
2024/2025	S1 Mechanical Engineering	98
2024/2025	S1 Information Technology	0
2024/2025	S1 Food Technology	101
2024/2025	S2 Nutrition Science	3
2024/2025	S2 Medical Laboratory Technology	59
2024/2025	S2 Nursing	48
2024/2025	S2 Public Health	9

Academic Year	Faculty/Department	Total Graduates
2025/2026	D3 Nutrition	55
2025/2026	D3 Midwifery	23
2025/2026	D3 Nursing	94
2025/2026	D3 Medical Laboratory Technology	199
2025/2026	D4 Medical Laboratory Technology	352
2025/2026	Medical Surgical Nursing	0
2025/2026	Doctor's Profession	141
2025/2026	Dentist's Profession	72
2025/2026	Educational of Midwifery Profession	67
2025/2026	Educational of Teacher Profession	1132
2025/2026	Educational of Nursing Profession	123
2025/2026	S1 Agribusiness	0
2025/2026	S1 Accounting	133
2025/2026	S1 Architecture	0
2025/2026	S1 Nutrition Science	128
2025/2026	S1 Marine Science	0
2025/2026	S1 Sport Science	0
2025/2026	S1 Nursing Science	16
2025/2026	S1 Informatics	22
2025/2026	S1 Midwifery	0
2025/2026	S1 Medicine	20
2025/2026	S1 Dentistry	9
2025/2026	S1 Public Health	116
2025/2026	S1 Management	228
2025/2026	S1 English Education	37
2025/2026	S1 Chemistry Education	23
2025/2026	S1 Mathematics Education	49
2025/2026	S1 Electrical Engineering	78
2025/2026	S1 Civil Engineering	0
2025/2026	S1 Data Science	0
2025/2026	S1 English Literature	29
2025/2026	S1 Statistics	120
2025/2026	S1 Mechanical Engineering	98
2025/2026	S1 Information Technology	0
2025/2026	S1 Food Technology	101
2025/2026	S2 Nutrition Science	3
2025/2026	S2 Medical Laboratory Technology	59
2025/2026	S2 Nursing	48
2025/2026	S2 Public Health	2
Total		**10532**

Description:

(*Please describe total number of graduates. The following is an example of the description. You can describe more related items if needed*.)

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[6] Education and Research (ED)

[6.19] Percentage of number of graduates with green jobs (for the last 3 years) (ED10)

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2023/2024	D3 Nutrition	69	15	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2023/2024	D3 Midwidery	14	0		
2023/2024	D3 Nursing	61	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Alumni Database
2023/2024	D3 Medical Laboratory Technology	85	26	Green Lab Technician; Environmental Monitoring Analyst; Chemical Safety Coordinator	Alumni Survey
2023/2024	D4 Medical Laboratory Technology	260	54	Sustainable Laboratory Manager; Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Tracer Study Report
2023/2024	Medical Surgical Nursing	0	0		
2023/2024	Doctor's Profession	109	0		
2023/2024	Dentist's Profession	33	5	Green Dentistry Practitioner; Sustainable Oral Health Educator; Dental Waste Management Officer	Alumni Survey
2023/2024	Educational of Midwifery	40	4	Green Curriculum Developer (Midwifery);	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Profession			Environmental Health Researcher; Sustainable Community Health Trainer	
2023/2024	Educational of Teacher Profession	149	50	Environmental Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Tracer Study Report
2023/2024	Educational of Nursing Profession	183	165	Sustainable Health Education Developer; Green Hospital Trainer; Environmental Health Researcher	Career Center Data
2023/2024	S1 Agribusiness	0	0		
2023/2024	S1 Accounting	78	61	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Alumni Survey
2023/2024	S1 Architecture	0	0		
2023/2024	S1 Nutrition Science	191	64	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Career Center Data
2023/2024	S1 Marine Science	0	0		
2023/2024	S1 Sport Science	0	0		
2023/2024	S1 Nursing Science	242	0		
2023/2024	S1 Informatics	11	9	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Tracer Study Report
2023/2024	S1 Midwifery	60	3	Eco-Maternal Care Specialist; Green Clinic Manager; Community Eco-Health Educator	Career Center Data
2023/2024	S1 Medicine	167	3	Public Health and Environment Doctor; Sustainable Healthcare Policy Advisor; Eco-Medicine Innovator	Alumni Database

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2023/2024	S1 Dentistry	56	3	Sustainable Dental Practice Manager; Dental Waste Reduction Coordinator; Oral Health and Environment Educator	Alumni Database
2023/2024	S1 Public Health	90	44	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Alumni Survey
2023/2024	S1 Management	189	164	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Tracer Study Report
2023/2024	S1 English Education	31	5	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Career Center Data
2023/2024	S1 Chemistry Education	10	2	Green Chemistry Educator; Waste Minimization Trainer; Sustainable Science Curriculum Developer	Alumni Database
2023/2024	S1 Mathematics Education	26	21	Environmental Data Analyst Educator; Green Statistics Developer; SDGs Literacy Trainer	Alumni Survey
2023/2024	S1 Electrical Engineering	57	26	Renewable Energy Engineer: Energy Efficiency Consultant; Smart Grid Developer;	Alumni Survey
2023/2024	S1 Civil Engineering	0	0		
2023/2024	S1 Data Science	0	0		
2023/2024	S1 English Literature	21	4	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Alumni Database
2023/2024	S1 Statistics	48	25	Environmental	Alumni

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Statistician; Climate Risk Analyst; Sustainable Product Designer	Survey
2023/2024	S1 Mechanical Engineering	116	14	Clean Energy Engineer; Green Manufacturing Engineer;	Tracer Study Report
2023/2024	S1 Information Technology	0	0		
2023/2024	S1 Food Technology	52	23	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Alumni Database
2023/2024	S2 Nutrition Science	0	0		
2023/2024	S2 Medical Laboratory Technology	30	9	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Alumni Survey
2023/2024	S2 Nursing	23	7	Eco-Nursing Researcher; Green Health Policy Developer; Environmental Health Educator	Tracer Study Report
2023/2024	S2 Public Health	0	0		
2024/2025	D3 Nutrition	55	48	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2024/2025	D3 Midwifery	18	13	Eco-Health Midwife; Sustainable Maternal Care Advocate; Medical Waste Reduction Coordinator	Alumni Survey
2024/2025	D3 Nursing	88	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Tracer Study Report
2024/2025	D3 Medical Laboratory	199	33	Green Lab Technician; Environmental	Career Center

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Technology			Monitoring Analyst; Chemical Safety Coordinator	Data
2024/2025	D4 Medical Laboratory Technology	352	157	Sustainable Laboratory Manager;Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Alumni Database
2024/2025	Medical Surgical Nursing	0	0		
2024/2025	Doctor's Profession	141	23	Environmental Health Doctor; Eco-Medicine Researcher; Sustainable Healthcare Advisor	Alumni Survey
2024/2025	Dentist's Profession	72	20	Green Dentistry Practitioner; Sustainable Oral Health Educator; Dental Waste Management Officer	Tracer Study Report
2024/2025	Educational of Midwifery Profession	67	13	Green Curriculum Developer (Midwifery); Environmental Health Researcher; Sustainable Community Health Trainer	Career Center Data
2024/2025	Educational of Teacher Profession	1354	300	Environmental Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Alumni Database
2024/2025	Educational of Nursing Profession	169	21	Sustainable Health Education Developer; Green Hospital Trainer; Environmental Health Researcher	Alumni Survey
2024/2025	S1 Agribusiness	0	0		
2024/2025	S1 Accounting	113	56	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Career Center Data
2024/2025	S1 Architecture	0	0		

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2024/2025	S1 Nutrition Science	128	75	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Alumni Survey
2024/2025	S1 Marine Science	0	0		
2024/2025	S1 Sport Science	0	0		
2024/2025	S1 Nursing Science	423	0		
2024/2025	S1 Informatics	22	3	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Alumni Database
2024/2025	S1 Midwifery	42	0		
2024/2025	S1 Medicine	149	0		
2024/2025	S1 Dentistry	64	0		
2024/2025	S1 Public Health	116	58	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Alumni Database
2024/2025	S1 Management	228	36	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Alumni Survey
2024/2025	S1 English Education	37	15	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Alumni Survey
2024/2025	S1 Chemistry Education	23	18	Green Chemistry Educator; Waste Minimization Trainer; Sustainable Science Curriculum Developer	Tracer Study Report
2024/2025	S1 Mathematics Education	49	35	Environmental Data Analyst Educator; Green Statistics Developer; SDGs Literacy Trainer	Career Center Data
2024/2025	S1 Electrical Engineering	78	14	Renewable Energy Engineer: Energy Efficiency Consultant;	Alumni Database

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Smart Grid Developer;	
2024/2025	S1 Civil Engineering	0	0		
2024/2025	S1 Data Science	0	0		
2024/2025	S1 English Literature	29	19	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Career Center Data
2024/2025	S1 Statistics	120	52	Environmental Statistician; Climate Risk Analyst; Sustainable Product Designer	Alumni Database
2024/2025	S1 Mechanical Engineering	98	21	Clean Energy Engineer; Green Manufacturing Engineer;	Alumni Survey
2024/2025	S1 Information Technology	0	0		
2024/2025	S1 Food Technology	101	30	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Tracer Study Report
2024/2025	S2 Nutrition Science	3	3	Sustainable Food Policy Researcher; Eco-Food Innovation Scientist; Sustainable Diet Policy Analyst	Career Center Data
2024/2025	S2 Medical Laboratory Technology	59	17	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Alumni Database
2024/2025	S2 Nursing	48	8	Eco-Nursing Researcher; Green Health Policy Developer; Environmental Health Educator	Alumni Survey
2024/2025	S2 Public Health	9	3	Environmental Epidemiologist; Climate Health Policy Expert; Sustainable Health	Tracer Study Report

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
				Systems Researcher	
2025/2026	D3 Nutrition	55	48	Sustainable Food Specialist; Food Waste Management Officer; Community Eco-Nutrition Educator	Alumni Database
2025/2026	D3 Midwifery	23	15	Eco-Health Midwife; Sustainable Maternal Care Advocate; Medical Waste Reduction Coordinator	Alumni Database
2025/2026	D3 Nursing	94	21	Green Hospital Nurse; Environmental Health Promoter; Sustainable Care Practitioner	Alumni Survey
2025/2026	D3 Medical Laboratory Technology	199	44	Green Lab Technician; Environmental Monitoring Analyst; Chemical Safety Coordinator	Alumni Survey
2025/2026	D4 Medical Laboratory Technology	352	159	Sustainable Laboratory Manager;Environmental Diagnostic Specialist; Eco-Efficiency Consultant	Tracer Study Report
2025/2026	Medical Surgical Nursing	0	0		
2025/2026	Doctor's Profession	141	28		
2025/2026	Dentist's Profession	72	20		
2025/2026	Educational of Midwifery Profession	67	20	Green Curriculum Developer (Midwifery); Environmental Health Researcher; Sustainable Community Health Trainer	Tracer Study Report
2025/2026	Educational of Teacher Profession	1132	80	Environmental Education Specialist; Eco-Pedagogy Researcher; Sustainable Education Policy Advisor	Alumni Database
2025/2026	Educational of	123	30	Sustainable Health	Alumni

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Nursing Profession			Education Developer; Green Hospital Trainer; Environmental Health Researcher	Database
2025/2026	S1 Agribusiness	0	0		
2025/2026	S1 Accounting	133	56	Environmental Accountant; ESG Reporting Specialist; Green Finance Officer	Alumni Survey
2025/2026	S1 Architecture	0	0		
2025/2026	S1 Nutrition Science	128	82	Sustainable Diet Advisor;Eco-Food Researcher; Green Food Policy Advocate	Alumni Database
2025/2026	S1 Marine Science	0	0		
2025/2026	S1 Sport Science	0	0		
2025/2026	S1 Nursing Science	16	3	Green Hospital Nurse; Environmental Health Advocate; Sustainable Patient Care Coordinator	Tracer Study Report
2025/2026	S1 Informatics	22	3	Green IT Specialist; Environmental Data Analyst; Smart Energy System Developer	Career Center Data
2025/2026	S1 Midwifery	0	0		
2025/2026	S1 Medicine	20	3	Public Health and Environment Doctor; Sustainable Healthcare Policy Advisor; Eco-Medicine Innovator	Alumni Survey
2025/2026	S1 Dentistry	9	3	Sustainable Dental Practice Manager; Dental Waste Reduction Coordinator; Oral Health and Environment Educator	Alumni Survey

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
2025/2026	S1 Public Health	116	58	Environmental Health Officer; Sustainable Sanitation Engineer; Climate Health Policy Specialist	Tracer Study Report
2025/2026	S1 Management	228	44	Green Business Consultant; CSR & ESG Manager; Sustainable Entrepreneurship Developer	Career Center Data
2025/2026	S1 English Education	37	15	Environmental Literacy Educator; Green Curriculum Writer; School Sustainability Advocate	Alumni Database
2025/2026	S1 Chemistry Education	23	19	Green Chemistry Educator; Waste Minimization Trainer;	Alumni Survey
2025/2026	S1 Mathematics Education	49	35	SDGs Literacy Trainer	Tracer Study Report
2025/2026	S1 Electrical Engineering	78	15	Renewable Energy Engineer: Energy Efficiency Consultant; Smart Grid Developer;	Career Center Data
2025/2026	S1 Civil Engineering	0	0	Sustainable Infrastructure Engineer;Wastewater Treatment Designer; Green Construction Supervisor	Alumni Database
2025/2026	S1 Data Science	0	0		0
2025/2026	S1 English Literature	29	19	Eco-Literature Writer; Green Communication Specialist; Cultural Sustainability Researcher	Alumni Survey
2025/2026	S1 Statistics	120	53	Environmental Statistician; Climate Risk Analyst; Sustainable Product Designer	Tracer Study Report
2025/2026	S1 Mechanical	98	21	Clean Energy Engineer;	Career

Academic Year	Faculty/Department	Total Graduates	Graduates with Green Jobs	Description of Green Jobs	Data Source
	Engineering			Green Manufacturing Engineer;	Center Data
2025/2026	S1 Information Technology	0	0	0	
2025/2026	S1 Food Technology	101	40	Sustainable Food Production Engineer; Zero Waste Food Developer; Eco-Packaging Innovator	Alumni Survey
2025/2026	S2 Nutrition Science	3	1	Sustainable Food Policy Researcher;	Tracer Study Report
2025/2026	S2 Medical Laboratory Technology	59	17	Environmental Bio-Monitoring Scientist; Green Analytical Chemist; Laboratory Sustainability Auditor	Career Center Data
2025/2026	S2 Nursing	48	8	Eco-Nursing Researcher	Alumni Database
2025/2026	S2 Public Health	2	1	Environmental Epidemiologist	Alumni Survey
Total		**10532**	**2900**		

Description:
(*Please describe percentage of number of graduates with green jobs. The following is an example of the description. You can describe more related items if needed*.)

Total number of graduates: 10532
Total number of graduates with green jobs: 2900

Percentage of number of graduates with green jobs:
(Total number of graduates with green jobs/ Total number of graduates) x 100%
= (2900/10532) x 100%
= 27.53%

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://unimus.ac.id/

[6] Education and Research (ED)

[6.20] Impact of Education and Research programs in supporting the Sustainable Development Goals (SDGs)







Description:

The education and research programs at Universitas Muhammadiyah Semarang (UNIMUS) have a strategic impact on supporting the achievement of the Sustainable Development Goals. These impacts can be seen through the improvement of human resource quality, community capacity building, health and well-being promotion, development of appropriate technology, economic empowerment, strengthening of digital literacy, and increased awareness of environmental sustainability.

Through the Faculty of Engineering and the Faculty of Computer Science and Digitalization, UNIMUS can promote technological innovation, digital service transformation, and sustainable infrastructure development. The Faculty of Public Health, the Faculty of Health and Nursing, and the Faculty of Dentistry contribute to improving public health through promotive, preventive, curative, and rehabilitative programs. The Faculty of Economics, Business, and Law supports community economic empowerment, business legality, governance, and sustainable entrepreneurship. The Faculty of Education and Humanities strengthens the quality of education, literacy, character building, and inclusiveness. Meanwhile, the Faculty of Science and Food Technology contributes to food security, food safety, local food innovation, and environmental conservation.
Overall, these programs show that education and research at Universitas Muhammadiyah Semarang are not only oriented toward academic development but also directed toward providing real benefits to society. The linkage between each program and the SDGs demonstrates that UNIMUS has strong potential to become a university that actively contributes to creating a healthier, smarter, more inclusive, productive, and sustainable society. Key programs include:

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
1.	Integration of Sustainability Themes Across the Curriculum	Sustainability themes are integrated into various disciplines, including engineering, computer science, economics, public health, health sciences, dentistry, education, law, social sciences, and food technology. Courses may include topics such as environmental health, sustainable infrastructure, digital transformation, food security, community empowerment, and ethical governance.	Students develop sustainability awareness, interdisciplinary thinking, and problem-solving skills relevant to community and global challenges.	**SDG 4: Quality Education** – This program strengthens students' knowledge, skills, and awareness of sustainability through curriculum integration. **SDG 3: Good Health and Well-Being** – Sustainability-related learning in public health, nursing, dentistry, and food technology supports health promotion and disease prevention. **SDG 8: Decent Work and Economic Growth** – Courses related to entrepreneurship, business, and sustainable economy prepare students for productive and responsible employment. **SDG 9: Industry, Innovation, and Infrastructure** – Engineering, computer science, and technology-based courses encourage innovation and sustainable infrastructure development.

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
				SDG 12: Responsible Consumption and Production – Students are introduced to sustainable consumption, waste reduction, and efficient resource use
2.	Development of Interdisciplinary Programs and Courses	UNIMUS develops interdisciplinary learning programs and courses focused on climate change, energy transition, circular economy, sustainable development, digital innovation, public health resilience, food sustainability, and community-based solutions. These programs involve collaboration among faculties to address complex sustainability issues.	Encourages students and lecturers to work across disciplines, strengthens innovation capacity, and supports the development of integrated solutions for sustainable development.	**SDG 4: Quality Education** – Interdisciplinary courses improve the quality and relevance of higher education. **SDG 7: Affordable and Clean Energy** – Programs on energy transition encourage the use of renewable and efficient energy systems. **SDG 9: Industry, Innovation, and Infrastructure** – Interdisciplinary learning promotes innovation in technology, digital systems, and sustainable infrastructure. **SDG 11: Sustainable Cities and Communities** – Courses on urban resilience and sustainable development support the creation of safer and more sustainable communities. **SDG 13: Climate Action** – Climate change-related courses increase awareness and capacity to respond to climate challenges. **SDG 17: Partnerships for the Goals** – Interdisciplinary programs encourage collaboration among faculties, institutions, and stakeholders
3.	Establishment of Research	Dedicated research centers, laboratories,	Produces evidence-based solutions,	**SDG 3: Good Health and Well-Being** – Research

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
	Centers, Laboratories, and Think Tanks	and academic groups are strengthened to address sustainability challenges such as renewable energy, water management, biodiversity, urban resilience, environmental health, food safety, digital health, halal products, and community welfare.	strengthens research capacity, and supports policy recommendations, technological innovation, and community development.	centers in health, nutrition, dentistry, and public health contribute to improving community well-being. **SDG 6: Clean Water and Sanitation** – Research on water management and sanitation supports access to safe and sustainable water systems. **SDG 7: Affordable and Clean Energy** – Laboratories can develop renewable energy and energy-efficient technologies. **SDG 9: Industry, Innovation, and Infrastructure** – Research centers support technological innovation, applied research, and infrastructure development. **SDG 11: Sustainable Cities and Communities** – Studies on urban resilience and community development contribute to sustainable settlements. **SDG 13: Climate Action** – Research on environmental management and climate adaptation supports climate action. **S** **DG 15: Life on Land** – Biodiversity and conservation research contributes to the protection of terrestrial ecosystems
4.	Annual Publication of Sustainability -Related Research Outputs	Lecturers and students are encouraged to publish sustainability-related research through peer-reviewed journals, books, proceedings, policy briefs, intellectual	Increases academic productivity, expands the dissemination of sustainability knowledge, and strengthens the university's contribution to science,	**SDG 4: Quality Education** – Scientific publications improve academic knowledge and support evidence-based learning. **SDG 9: Industry, Innovation, and Infrastructure** –

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
		property rights, patents, and innovation products. Research outputs may focus on health, food security, environmental management, digitalization, education, economics, law, and community empowerment.	policy, and society.	Innovation patents and research products support technological development and applied innovation. **SDG 12: Responsible Consumption and Production** – Research on sustainable production, food technology, and waste management promotes responsible resource use. **SDG 13: Climate Action** – Publications on climate, environment, and sustainability strengthen knowledge for climate mitigation and adaptation. **SDG 16: Peace, Justice, and Strong Institutions** – Policy briefs and legal research support good governance and evidence-based decision-making. **SDG 17: Partnerships for the Goals** – Joint publications and research collaboration strengthen academic and institutional partnerships.
5.	Sustainability -Focused Scholarships and Research Grants	UNIMUS supports students and lecturers through scholarships, thesis grants, research funding, community service grants, capstone project support, and student-led innovation funding related to SDGs themes.	Encourages student participation in sustainability research, increases innovation, and supports the development of young researchers with social and environmental awareness.	**SDG 4: Quality Education** – Scholarships and thesis grants expand access to quality education and support academic achievement. **SDG 5: Gender Equality** – Equal access to scholarships and research opportunities supports women's participation in education and research. **SDG 9: Industry, Innovation, and Infrastructure** – Research grants encourage student innovation and

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
				technology-based solutions. **SDG 10: Reduced Inequalities** – Funding support helps reduce educational barriers for students from diverse backgrounds. **SDG 17: Partnerships for the Goals** – Collaborative funding and research schemes strengthen cooperation among universities, communities, government, and industry.
6.	Community-Based Learning and Participatory Action Research	Students and lecturers conduct community-based learning, fieldwork, community service, and participatory action research in collaboration with local governments, industries, schools, health centers, MSMEs, and NGOs. Programs may address environmental sanitation, stunting prevention, non-communicable diseases, waste management, food processing, digital literacy, and MSME empowerment.	Provides real-world learning experiences, strengthens community capacity, and produces practical solutions for local environmental, health, economic, and social problems.	**SDG 1: No Poverty** – Community empowerment programs can increase skills, income, and livelihood opportunities. **SDG 2: Zero Hunger** – Programs on food security, nutrition, and local food processing support better access to nutritious food. **SDG 3: Good Health and Well-Being** – Health promotion, disease prevention, and community-based interventions improve public health. **SDG 4: Quality Education** – Community-based learning provides real-world educational experiences for students and communities. **SDG 8: Decent Work and Economic Growth** – MSME assistance and entrepreneurship training support local economic growth. **SDG 10: Reduced Inequalities** – Programs targeting vulnerable communities help reduce social and health

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
				disparities. **SDG 11: Sustainable Cities and Communities** – Community-based solutions contribute to safer, healthier, and more resilient communities. **SDG 12: Responsible Consumption and Production** – Waste management, recycling, and sustainable production programs encourage responsible resource use. **SDG 17: Partnerships for the Goals** – Collaboration with local governments, industries, schools, health centers, and NGOs strengthens program impact.
7.	Organization of Conferences, Workshops, and Summer Schools	UNIMUS organizes academic forums, seminars, conferences, workshops, and short courses on SDG-related themes such as sustainable health, food technology, digital transformation, green economy, education for sustainable development, environmental management, and community resilience.	Promotes knowledge exchange, strengthens interdisciplinary dialogue, expands academic networks, and increases public awareness of sustainable development.	**SDG 4: Quality Education** – Academic forums improve knowledge, skills, and professional competence. **SDG 9: Industry, Innovation, and Infrastructure** – Workshops and conferences encourage innovation, technology transfer, and applied research. **SDG 13: Climate Action** – SDG-related forums increase awareness and knowledge on climate change and environmental sustainability. **SDG 16: Peace, Justice, and Strong Institutions** – Discussions on governance, ethics, law, and social responsibility support stronger institutions. **SDG 17: Partnerships for the Goals** – Conferences and workshops create

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
				opportunities for collaboration among academics, practitioners, government, industry, and communities
8.	Environmental Literacy Campaigns	Environmental literacy campaigns are conducted for students, staff, and the wider community through education on waste sorting, composting, energy saving, water conservation, healthy lifestyles, sustainable consumption, and green campus behavior.	Builds a culture of sustainability, increases environmental awareness, and encourages behavioral change within the campus and community.	**SDG 3: Good Health and Well-Being** – Environmental literacy supports healthier lifestyles and reduces exposure to environmental health risks. **SDG 4: Quality Education** – Campaigns provide sustainability education for students, staff, and communities. **SDG 6: Clean Water and Sanitation** – Education on water conservation and sanitation supports responsible water use. **SDG 11: Sustainable Cities and Communities** – Waste sorting, composting, and green behavior contribute to cleaner and more sustainable communities. **SDG 12: Responsible Consumption and Production** – Campaigns encourage reducing waste, recycling, and responsible consumption. **SDG 13: Climate Action** – Energy saving and environmental awareness contribute to climate change mitigation.
9.	Promotion of Green Campus Living Labs	UNIMUS promotes the campus as a living laboratory where students, lecturers, and researchers co-develop	Transforms the campus into a model of sustainable practice, encourages experiential learning,	**SDG 4: Quality Education** – Living labs provide experiential learning where students can directly apply sustainability concepts.

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
		and test sustainability innovations. Examples include waste banks, smart irrigation, energy-efficient systems, digital dashboards, healthy canteens, eco-enzyme production, hydroponic gardens, and food waste reduction programs.	and supports the testing of innovations before wider community implementation.	**SDG 6: Clean Water and Sanitation** – Water conservation and waste-water-related innovations support sustainable water management. **SDG 7: Affordable and Clean Energy** – Energy-efficient systems and renewable energy pilots support clean energy use on campus. **SDG 9: Industry, Innovation, and Infrastructure** – Campus-based innovation projects support applied technology and infrastructure development. **SDG 11: Sustainable Cities and Communities** – A green campus can serve as a model for sustainable community development. **SDG 12: Responsible Consumption and Production** – Waste banks, food waste reduction, and recycling programs promote responsible consumption. **SDG 13: Climate Action** – Low-emission campus practices and sustainability innovations contribute to climate action.
10.	International Academic and Research Partnerships	UNIMUS strengthens partnerships with international academic networks, universities, professional associations, industries, and development organizations to expand research collaboration, student mobility, joint	Enhances global collaboration, improves research quality, increases international recognition, and supports the scaling up of sustainability initiatives.	**SDG 4: Quality Education** – International collaboration improves academic quality, student mobility, and knowledge exchange. **SDG 9: Industry, Innovation, and Infrastructure** – Joint research supports innovation and technological development. **SDG 10: Reduced Inequalities**

No.	Key Program	Implementation at UNIMUS	Impact	Related SDGs
		publications, community engagement, and sharing of best practices in education for sustainable development.		– International community engagement can support vulnerable groups, including migrant communities and underserved populations. **SDG 16: Peace, Justice, and Strong Institutions** – Global academic collaboration promotes mutual understanding, institutional strengthening, and ethical governance. **SDG 17: Partnerships for the Goals** – This program directly supports international partnerships to achieve sustainable development goals

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

https://harianmuria.com/kendal/panen-padi-perdana-wabup-kendal-minta-unimus-bantu-rantai-distribusi/

https://suaramuhammadiyah.id/read/kolaborasi-lkhp-dan-latin-unimus-luncurkan-hutan-wakaf-pendidikan

https://agribisnis.unimus.ac.id/unimus-gelar-soft-launching-hutan-wakaf-pendidikan-wujud-integrasi-nilai-islam-dan-konservasi-lingkungan/

https://maklumat.id/integrasikan-pendidikan-dengan-konservasi-muhammadiyah-resmikan-hutan-wakaf-di-unimus/

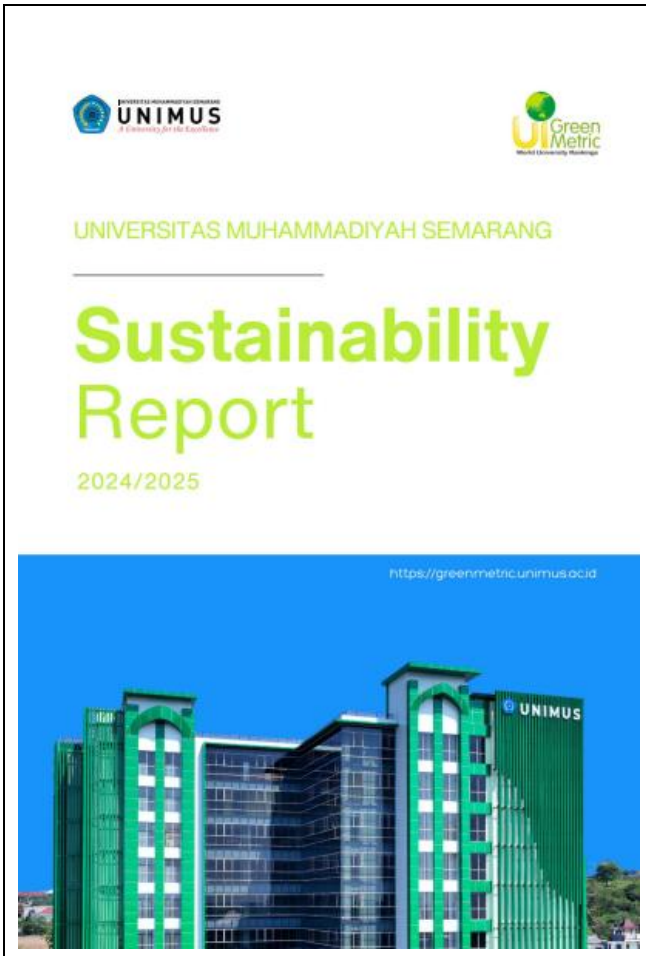
https://agribisnis.unimus.ac.id/panen-padi-perdana-penguatan-peran-prodi-agribisnis-feb-unimus-dalam-pemberdayaan-petani-dan-ketahanan-pangan/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

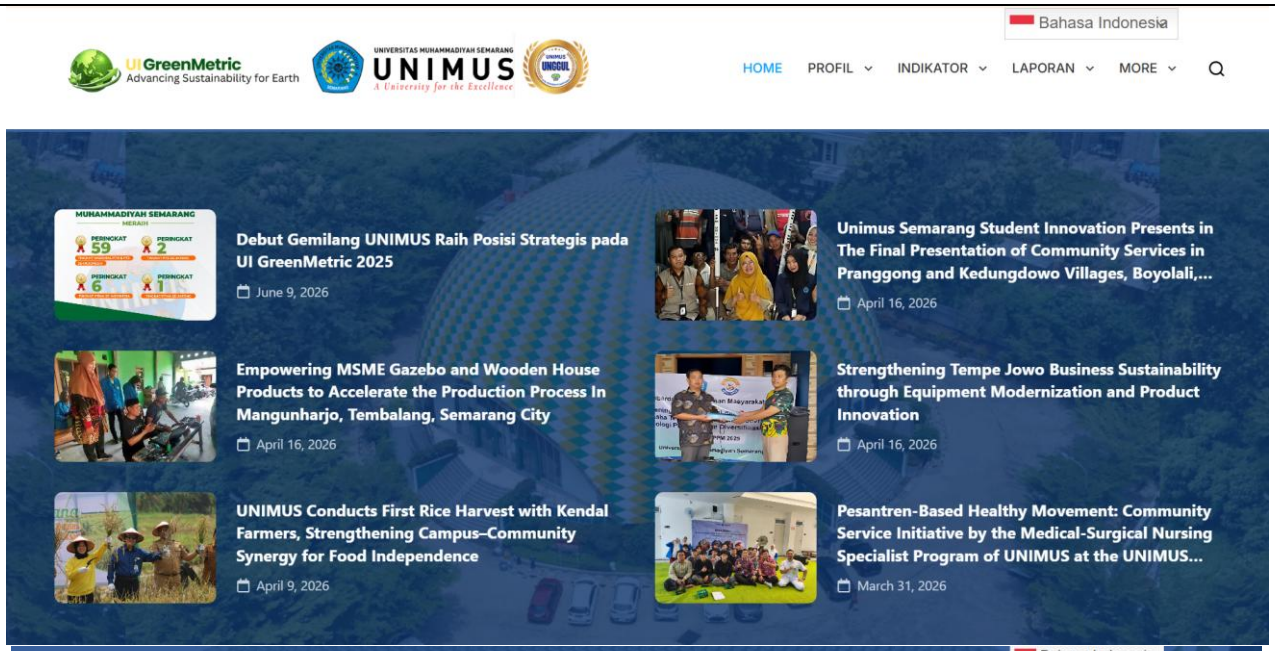
[7] Governance and Digitalization

[7.6] Sustainability Report (GD.3)

	
Sustainability Report 2024/2025 UNIMUS	Carbon Emission Report 2024/2025



UNIMUS's Sustainability Website





UI GM UNIMUS'S Website

Description:
Universitas Muhammadiyah Semarang (UNIMUS) is committed to implementing transparency, accountability, and continuous improvement in sustainability governance through the publication of sustainability-related reports and public information platforms. As part of this commitment, UNIMUS has published the Sustainability Report 2024, which presents the university's sustainability policies, programs, achievements, and performance indicators across environmental, social, economic, and governance dimensions. The report highlights various sustainability initiatives undertaken by the university, including energy conservation, water management, waste reduction, sustainable transportation, green campus development, education and research for sustainability, community engagement, and contributions to the Sustainable Development Goals (SDGs).

To strengthen sustainability reporting and stakeholder engagement, UNIMUS also maintains dedicated digital platforms that provide public access to sustainability information and achievements. These platforms include the Sustainability Website and the UI GreenMetric Website, which serve as repositories for sustainability policies, programs, performance indicators, achievements, and supporting evidence. Through these platforms, students, staff, external stakeholders, and the wider community can access updated information regarding the university's sustainability efforts and commitments.

In addition, UNIMUS prepares and publishes a Carbon Emission Report as part of its environmental monitoring and climate action initiatives. The report provides information on greenhouse gas emission measurements, emission reduction efforts, and strategies to support low-carbon campus development. This reporting mechanism supports institutional decision-making and demonstrates the university's commitment to climate responsibility and environmental stewardship.

The Sustainability Report, Carbon Emission Report, and sustainability-related websites collectively serve as key instruments for monitoring, evaluating, documenting, and communicating sustainability performance. These initiatives reflect UNIMUS' commitment to integrating sustainability principles into university governance and ensuring transparent disclosure of sustainability information to stakeholders. UNIMUS is committed to continuously improving its sustainability reporting system and expanding the scope and quality of sustainability disclosures in future reporting periods.Supporting evidence:

- UNIMUS Sustainability Report 2024/2025 < Sustainability Report 2024/2025 UNIMUS >
- UNIMUS Sustainability Website < UNIMUS's Sustainability Website >
- UNIMUS UI GreenMetric Website < https://greenmetric.unimus.ac.id/# >
- UNIMUS Carbon Emission Report < Carbon Emission Report 2024/2025>
- Sustainability and SDGs-related publications available on the university website and repository

The Sustainability Report, Carbon Emission Report, Sustainability Website, and UI GreenMetric Website are publicly accessible and serve as institutional tools for sustainability monitoring, performance evaluation, stakeholder communication, and continuous improvement. UNIMUS is committed to continuously improving its sustainability reporting system, ensuring regular disclosure of sustainability information, and expanding the scope and quality of sustainability reports in future reporting periods.

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/#

[7] Governance and Digitalization (GD)

[7.10] Availability of unit(s) or office(s) that coordinate sustainability on campus (GD.5)

KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor : 222/UNIMUS/SK.KP/2024

tentang

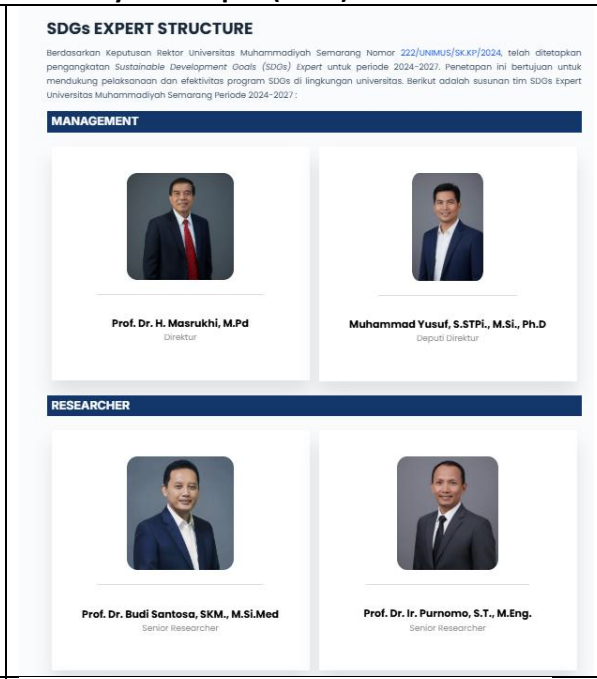
PENGANGKATAN SUSTAINABLE DEVELOPMENT GOALS (SDGs) *EXPERT STRUCTURE, MANAGEMENT & DUTIES*
DI LINGKUNGAN UNIVERSITAS MUHAMMADIYAH SEMARANG
PERIODE 2024-2027

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

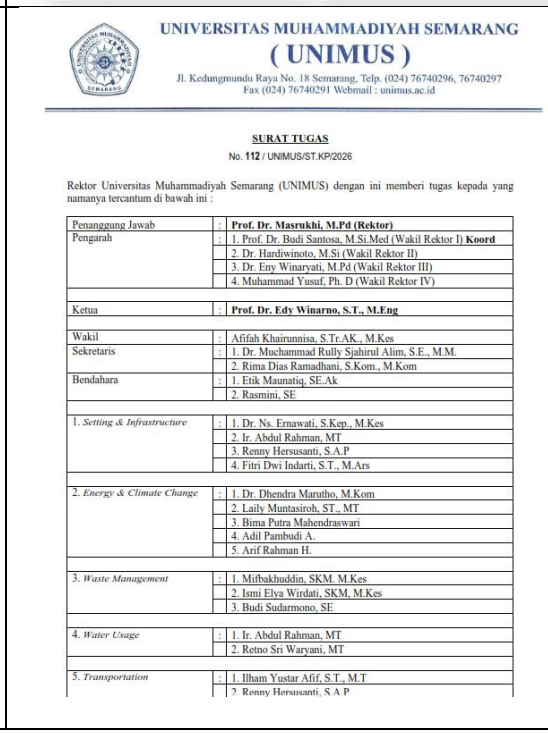
Menimbang : a. bahwa dalam rangka mendukung pelaksanaan *Sustainable Development Goals* (SDGs) di lingkungan Universitas Muhammadiyah Semarang, diperlukan tenaga ahli (SDGs Expert) yang memiliki kompetensi di bidang *structure, management, and duties*;
b. bahwa untuk efektivitas pelaksanaan program SDGs di universitas, perlu ditetapkan pengangkatan SDGs Expert yang akan memberikan pendampingan, rekomendasi kebijakan, serta evaluasi terkait implementasi SDGs
c. bahwa sebagai perwujudannya perlu ditetapkan dengan surat keputusan Rektor.

Mengingat : 1. Undang–Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang–Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi;
3. Keputusan Mendikbud Nomor:139/D/O/1999, tentang Pendirian Universitas Muhammadiyah di Semarang;
4. Keputusan PP Muhammadiyah Nomor: 0150/KTN/I.3/D/2020 tentang Statuta Universitas Muhammadiyah Semarang tahun 2019;
5. Keputusan PP Muhammadiyah Nomor:433/KEP/I.0/D/2023 tentang Pengangkatan Rektor Universitas Muhammadiyah Semarang Masa Jabatan 2023-2027;

MEMUTUSKAN







UNIVERSITAS MUHAMMADIYAH SEMARANG
(UNIMUS)
Jl. Kedungmundu Raya No. 18 Semarang, Telp. (024) 76740296, 76740297
Fax (024) 76740291 Webmail : unimus.ac.id

SURAT TUGAS
No. 112 / UNIMUS/ST.KP/2026

Rektor Universitas Muhammadiyah Semarang (UNIMUS) dengan ini memberi tugas kepada yang namanya tercantum di bawah ini :

Penanggung Jawab	:	**Prof. Dr. Masrukhi, M.Pd (Rektor)**
Pengarah	:	1. Prof. Dr. Budi Santosa, M.Si.Med (Wakil Rektor I) **Koord**
		2. Dr. Hardiwinoto, M.Si (Wakil Rektor II)
		3. Dr. Eny Winaryati, M.Pd (Wakil Rektor III)
		4. Muhammad Yusuf, Ph. D (Wakil Rektor IV)
Ketua	:	**Prof. Dr. Edy Winarno, S.T., M.Eng**
Wakil	:	Afifah Khairunnisa, S.Tr.AK., M.Kes
Sekretaris	:	1. Dr. Muchammad Rully Sjahirul Alim, S.E., M.M.
		2. Rima Dias Ramadhani, S.Kom., M.Kom
Bendahara	:	1. Etik Maunatiq, SE.Ak
		2. Rasmini, SE
1. *Setting & Infrastructure*	:	1. Dr. Ns. Ernawati, S.Kep., M.Kes
		2. Ir. Abdul Rahman, MT
		3. Renny Hersusanti, S.A.P
		4. Fitri Dwi Indarti, S.T., M.Ars
2. *Energy & Climate Change*	:	1. Dr. Dhendra Marutho, M.Kom
		2. Laily Muntasiroh, ST., MT
		3. Bima Putra Mahendraswari
		4. Adil Pambudi A.
		5. Arif Rahman H.
3. *Waste Management*	:	1. Mifbakhuddin, SKM, M.Kes
		2. Ismi Elya Wirdati, SKM, M.Kes
		3. Budi Sudarmono, SE
4. *Water Usage*	:	1. Ir. Abdul Rahman, MT
		2. Retno Sri Waryani, MT
5. *Transportation*	:	1. Ilham Yustar Afif, S.T., M.T
		2. Renny Hersusanti, S.A.P



University leader decree of establishment, structure and activities (Universitas Muhammadiyah Semarang, Indonesia) https://sustainability.unimus.ac.id/governance/2025-governance/

Description:

(*Please describe availability of unit(s) or office(s) that coordinate sustainability on campus. The following is an example of the description. You can describe more related items if needed*.)

Universitas Muhammadiyah Semarang (UNIMUS) has established dedicated structures and personnel to coordinate sustainability initiatives across the university. Sustainability governance is supported by university leadership through official decrees defining the organizational structure, responsibilities, and activities of the sustainability management team. This structure facilitates the implementation, monitoring, evaluation, and continuous improvement of sustainability programs aligned with the Sustainable Development Goals (SDGs) and the UI GreenMetric framework.The sustainability coordination team consists of academic and administrative personnel with multidisciplinary expertise who are responsible for integrating sustainability principles into university policies, operations, education, research, community engagement, and campus development. The team also coordinates data collection, reporting, and evidence preparation for sustainability assessments and international rankings.

To enhance transparency and stakeholder engagement, UNIMUS maintains dedicated Sustainability and UI GreenMetric websites that serve as platforms for disseminating sustainability policies, programs, achievements, reports, and supporting evidence. The sustainability coordination unit actively facilitates collaboration among faculties, administrative units, and external partners to promote sustainable practices and strengthen institutional commitment to sustainability. Main activities of the sustainability coordination team include sustainability planning and policy implementation, SDGs integration, GreenMetric data management and reporting, monitoring and evaluation of sustainability performance, publication of sustainability reports, organization of seminars and

awareness campaigns, research collaboration, community engagement activities, and capacity building programs related to sustainability.

Number of dedicated staff members assigned to the unit or office responsible for coordinating sustainability initiatives on campus: 40 people

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://greenmetric.unimus.ac.id/wp-content/uploads/2025/11/2024-25.222.KP_.F-Pengangkatan-SDGs-Expert-STRUCTURE-MANAGEMENT-DUTIES-2.pdf

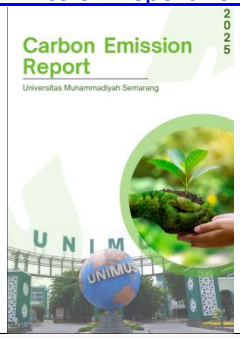
Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[7] Governance and Digitalization

[7.12] Implementation of sustainability programs through the utilization of Information and Communication Technology (ICT) aligned with UI GreenMetric criteria (GD.6)

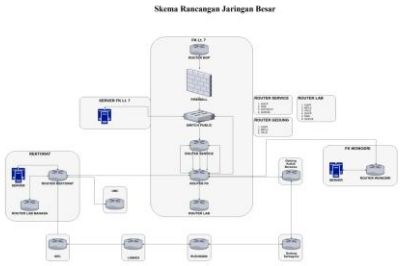
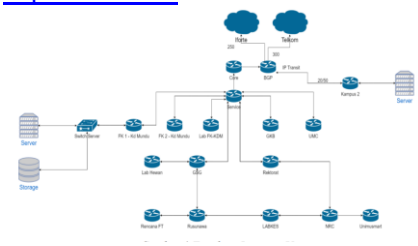
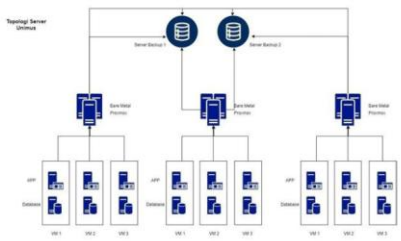
Section A — ICT for sustainability management: screenshots of sustainability dashboard/reporting system/KPI platform (showing real modules/menus).

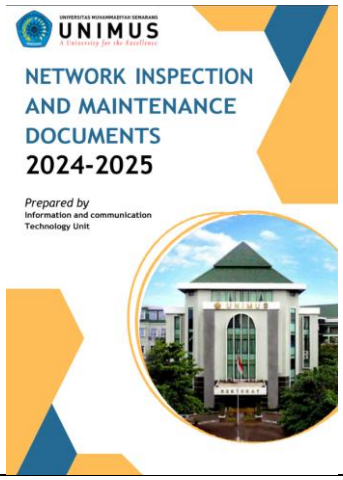
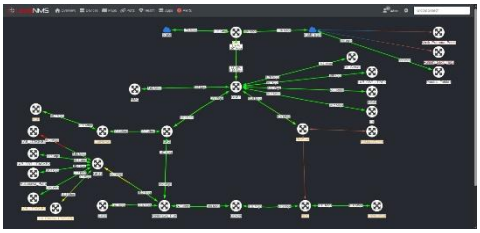
No	Initiative	Function	Brief Description	Screenshot or link of evidence
1	Greenmatrics Website	Monitoring & Reporting	Dedicated website used to disseminate sustainability policies, programs, achievements, indicators, and GreenMetric-related information	https://greenmetric.unimus.ac.id/ 
2	Sustainability website	Documentation & Transparency	Digital platform providing sustainability information, SDGs initiatives, reports, achievements, and supporting evidence.	https://sustainability.unimus.ac.id/ 
3	Carbon Emission Reporting System	Monitoring	Digital reporting and publication platform used to document greenhouse gas emission inventories and emission reduction initiatives	Carbon Emission Report 2024/2025 
4	*Waste Monitoring System*	Monitoring	Digitalization-Waste used to record, calculate, and monitor waste across the university.	

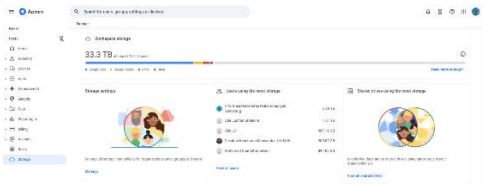
5.	Learning Management System (LMS)	Paperless Learning & Resource Efficiency	An online learning platform supporting digital teaching, assignments, examinations, and academic communication, significantly reducing paper consumption and promoting sustainable education practices.	https://elearning.unimus.ac.id/ 
6.	Academic Infomation system "SIAMUS"	Paperless Academic Administration	An integrated academic management system that facilitates online registration, course enrollment, academic records, scheduling, and digital academic services, reducing the need for paper-based processes.	https://siamus.unimus.ac.id/index.php 
7.	SIMSURAT (Digital Correspondence System)	Paperless Administration & Digital Governance	A web-based correspondence management system used for electronic handling of incoming and outgoing letters, document disposition, approval workflows, and digital archiving. The system reduces paper consumption, improves administrative efficiency, enhances document traceability, and supports sustainable campus governance through paperless operations.	https://simsurat.unimus.ac.id/home 

Section B — Connectivity readiness: Wi-Fi coverage summary (map/list), Internet/network availability snapshot, and (if available) monitoring screenshots.

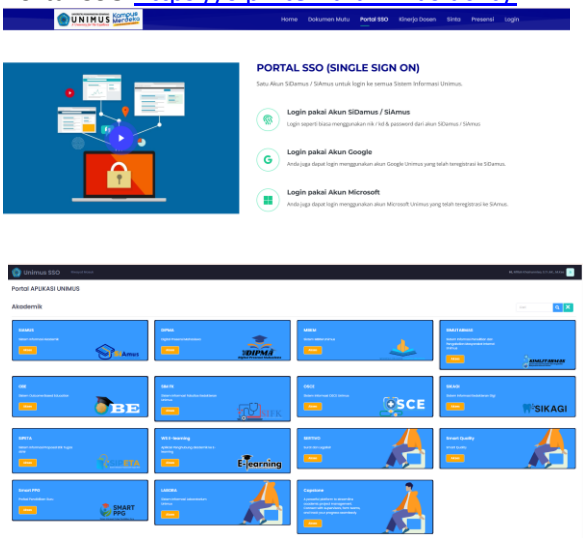
No	Initiative	Function	Brief Description	Screenshot or link of evidence
1	Campus-Wide Wi-Fi Infrastructure	Implementation Support	A campus-wide wireless network infrastructure provides internet access across academic buildings, laboratories, libraries, administrative offices, and public areas to support digital sustainability programs, online learning, and paperless operations.	Network Inspection And Maintenance Documents https://drive.google.com/file/d/1XykBqnh8ZSsqXqd3GeEUzp09JwoTmFHY/view?usp=drive_link Main Network Reconstruction Document https://drive.google.com/file/d/1NMOSlrPYgBlTaIAPqSPdtYAs7Zojnq8J/view?usp=drive_link

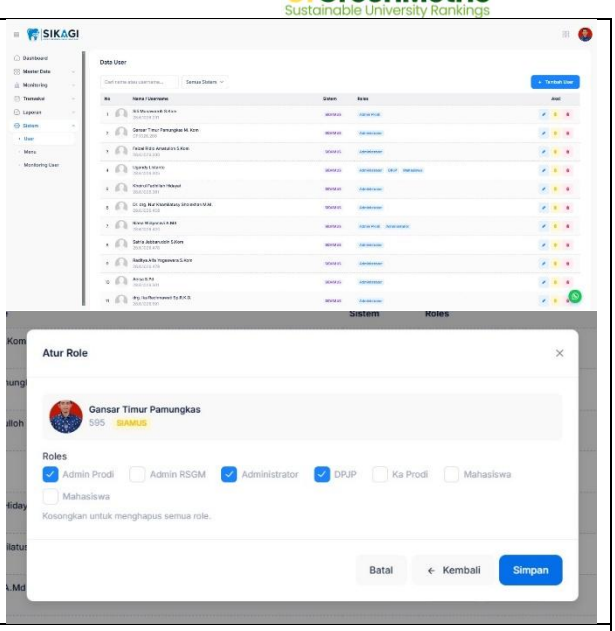
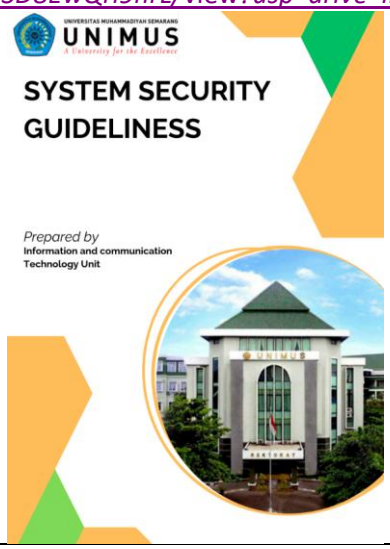
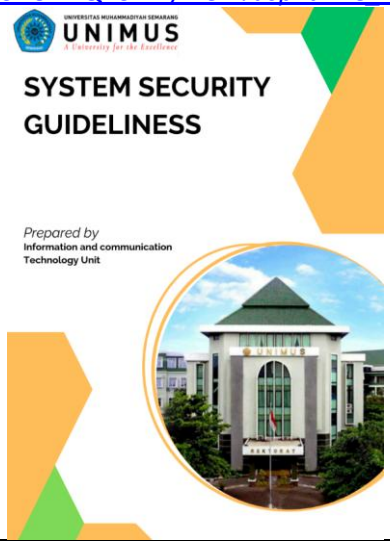
				 *(Unimus Large-Scale Network Plan Diagram)*
2	High-Speed Internet Connectivity	Connectivity Support	High-speed internet connectivity supports digital learning, sustainability reporting systems, online administration, cloud-based services, and effective communication among university stakeholders.	Network And Server Infrastructure Management Documents *https://drive.google.com/file/d/1yAv4ZbaWX81YeyMh3VKkHOmbxFvQmKuD/view?usp=drive_link*
3	Redundant Internet Connectivity	Continuity	Multiple internet service providers ensure network reliability and uninterrupted access to sustainability-related digital platforms and university information systems.	Network and Server Infrastructure Management Documents https://drive.google.com/file/d/1NMOSlrPYgBlTaIAPqSPdtYAs7Zojnq8J/view?usp=drive_link  *(UNIMUS'S Network Topology)*  *(UNIMUS'S Server Topology)*
4	Network Monitoring System	Monitoring	A centralized network monitoring system is utilized to monitor bandwidth usage, uptime, traffic performance, and service reliability to ensure uninterrupted	Network Inspection And Maintenance Documents https://drive.google.com/file/d/1XykBqnh8ZSsqXqd3GeEUzp09JwoTmFHY/view?usp=drive_link

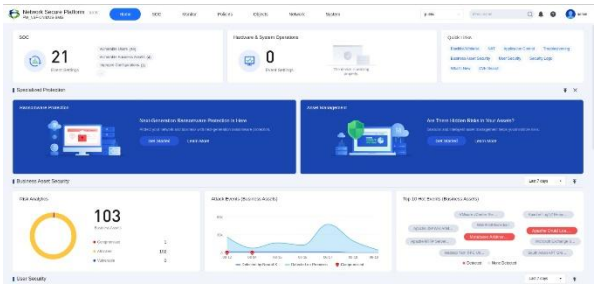
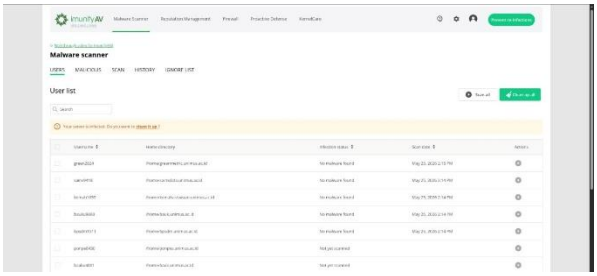
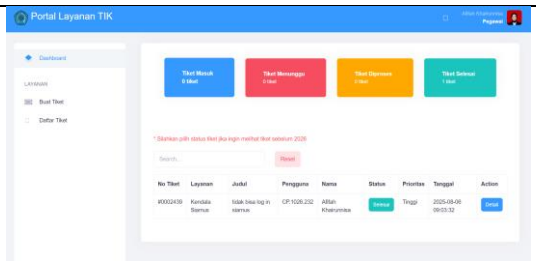
			operation of university digital platforms.	
5	Learning Management System (LMS)	Paperless Learning	Online learning platform reducing paper consumption through digital teaching, assessment, and communication.	https://elearning.unimus.ac.id/ 
6	*Data Center and Server Infrastructure*	Service Availability	Centralized servers and data center facilities support institutional information systems and sustainability-related digital platforms, ensuring reliable service availability and efficient data management.	*screenshot/link* Network and Server Infrastructure Management Documents https://drive.google.com/drive/folders/1LPCsA1p_LL-690sp5sMpTvEcNRV5_8WO  *(Server Diagram)*  *(Server's room)*

7	Cloud-Based Services and Storage	Reliability & Accessibility	UNIMUS utilizes institutional email accounts integrated with cloud-based services to support secure communication, file sharing, cloud storage, and collaboration among students, faculty members, and staff. These services enhance information accessibility, support digital workflows, and reduce dependence on paper-based processes.	Cloud-Based Services and Storage at UNIMUS 

Section C — Infrastructure reliability and security: backup/continuity summary, access control/security policy excerpt, monitoring snapshot.

No	Initiative	Function	Brief Description	Screenshot or link of evidence
1	Single Sign-On (SSO) System	Governance & Data Integrity	A centralized authentication system enables users to securely access multiple university digital services using a single account, enhancing user experience, access control, and information security.	Portal SSO https://sipinterku.unimus.ac.id/ 

2	Role-Based Access Control System	Governance & Data Integrity	User access managed by role with authentication and activity logs	
3	Data Backup & Disaster Recovery System	Continuity	Daily backups and defined recovery procedures to ensure system availability	System Security Guideliness https://drive.google.com/file/d/1Ay4G1BqzyKciOtCS9CBASD8EwQrl9hrL/view?usp=drive_link 
4	ICT Security Policy and System Security Guidelines	Information Security	NIMUS implements ICT security policies and system security guidelines to safeguard digital assets, maintain data confidentiality, and ensure secure operations. Security measures include user authentication, firewall protection, access control mechanisms, and network security management.	System Security Guideliness https://drive.google.com/file/d/1Ay4G1BqzyKciOtCS9CBASD8EwQrl9hrL/view?usp=drive_link 

				 (Firewall Security)  (Server Security)
5	Network and System Monitoring	Monitorng	UNIMUS conducts continuous monitoring and periodic maintenance of network infrastructure and server systems to ensure service availability, system reliability, and optimal performance of institutional digital platforms. Regular inspection, maintenance, and infrastructure management activities are implemented to support stable operations, minimize disruptions, and maintain the continuity of digital services across the university	Network and Server Infrastructure Management Documents https://drive.google.com/file/d/1NMOSlrPYgBlTaIAPqSPdtYAs7Zojnq8J/view?usp=drive_link Network Inspection And Maintenance Documents https://drive.google.com/file/d/1XykBqnh8ZSsqXqd3GeEUzp09JwoTmFHY/view
6	*ICT Helpdesk and Technical Support Center*	Service Reliability & Continuous Improvement	UNIMUS operates an ICT Helpdesk and Technical Support Center to provide technical assistance, incident handling, troubleshooting, and user support for institutional digital services. The helpdesk ensures service reliability, minimizes system disruptions, and	 *(IT's Dashboard helpdesk)*

			supports continuous improvement of ICT infrastructure and services.	

Template for Evidence(s)
UI GreenMetric Questionnaire

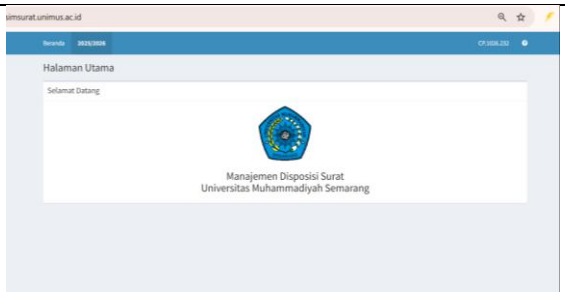
University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

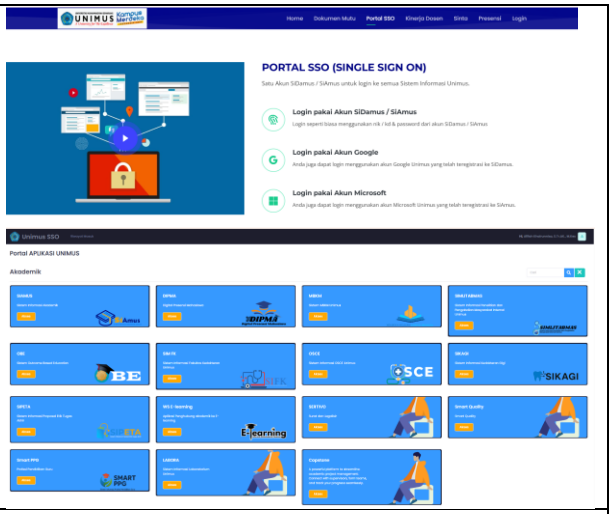
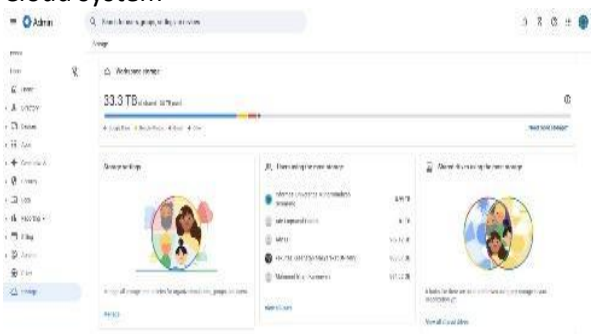
[7] Governance and Digitalization (GD)

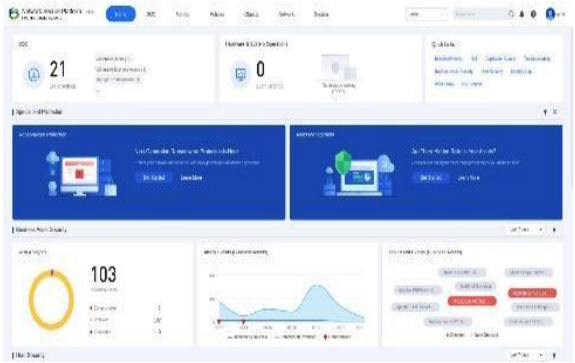
[7.13] Policy on advanced digital technologies (AI/IoT, etc.) to support decision-making, efficiency, and service delivery (GD.7)

(To demonstrate maturity for GD7, the university should show that digitized services are not isolated pilots but are governed by institutional policy and implemented across core functions (student services, academic administration, HR, finance, asset/facility operations, where relevant). Integration and performance monitoring strengthen the evidence that technology enables efficiency and better decision-making)

Example:

No	Initiative	Policy Basis	Implementation Scope	Evidence
1	Digital Transformation and Sustainable Campus Policy	UNIMUS Rectoral Decree No. 223/UNIMUS/SK.PG/2024 on the UNIMUS as a Sustainable Green Campus	Implemented across all faculties and administrative units to support sustainability governance and digital transformation.	 (Sustainability website) https://sustainability.unimus.ac.id/
2	Paperless Administration and E-Workflow System	UNIMUS Rectoral Decree No. 160/UNIMUS/SK.PG/2024 on the Reduce Paper Usage on Campus	Applied to rectorate, faculties, and administrative units through digital correspondence and paperless workflows.	 (SIMSURAT website)
3	Single Sign-On (SSO) Integration (SIPINTERKU)	System Security Guideliness	Unified authentication across institutional	SSO portal : https://sipinterku.unimus.ac.id/

		https://drive.google.com/file/d/1Ay4G1BqzyKciOtCS9CBASD8EwQrl9hrL/view?usp=drive_link	information systems and digital services.	
4	Institutional Cloud-Based Services and Storage	Network and Server Infrastructure Management Documents https://drive.google.com/drive/folders/1LPCsA1p_LL-690sp5sMpTvEcNRV5_8WO	Supports communication, file sharing, collaboration, and cloud storage services for students, lecturers, and staff.	Cloud system 
5	Sustainability and GreenMetric Digital Information System	https://greenmetric.unimus.ac.id/wp-content/uploads/2025/11/2024-25.222.KP_.F-Pengangkatan-SDGs-Expert-STRUCTURE-MANAGEMENT-DUTIES-2.pdf	Supports sustainability reporting, monitoring, documentation, and stakeholder communication.	https://greenmetric.unimus.ac.id/ 

6	AI Chatbot for Student & Staff Services	Digital Service Innovation Policy	Integrated with PMB services to provide automated information and support for prospective students, current students, and academic services.	
	ICT Security and Information Protection System	ICT Security Policy and System Security Guidelines https://drive.google.com/file/d/1Ay4G1BqzyKciOtCS9CBASD8EwQrl9hrL/view?usp=drive_link	Implemented to ensure confidentiality, integrity, and availability of institutional information systems through firewall protection, authentication, and access control.	Firewall security 

8	Digital Signature	UNIMUS Rectoral Decree No. 160/UNIMUS/SK.PG/2024 on the Reduce Paper Usage on Campus	UNIMUS implements a Digital Signature System to support secure document approval, paperless workflows, and efficient administrative services.	

UNIVERSITAS MUHAMMADIYAH SEMARANG
Fakultas Ilmu Keperawatan dan Kesehatan
Jl. Kedungmundu Raya No. 18 Semarang, Telp. (024) 7674029?
Semarang, 50273 Jawa Tengah, e-mail : tik@unimus.ac.id

Nomor : 2/UNIMUS.G/KM/2026 — Semarang, 05 Februari 2026
Perihal : Surat Keterangan Grading Letter

Assalamualaikum Wr. Wb.

Yang bertanda tangan di bawah ini:
Nama : Dr. Ali Rosidi S.KM, M.Si
Jabatan : Dekan
NIK : 28.6.1026.021

Menerangkan bahwa yang tersebut di bawah ini:
Nama : ANITA PUSPITA SARI
NIM : G2A003009
Tempat, Tanggal Lahir : SEMARANG, 30 Januari 1985

Adalah benar lulusan Program Studi S1 Ilmu Keperawatan Universitas Muhammadiyah Semarang.
Yang bersangkutan telah LULUS pada :
Tanggal Lulus : 29 September 2007
Nomor Ijazah : No.F.1343/S.KEP | No.U.228/KEP
Program Studi : S1 Ilmu Keperawatan
IPK : 3.12

Demikian surat keterangan ini dikeluarkan untuk dapat dipergunakan sebagaimana mestinya

Wabillahit taufiq wal hidayah
Wassalamualaikum Wr. Wb.

Dekan

Dr. Ali Rosidi S.KM, M.Si
28.6.1026.021

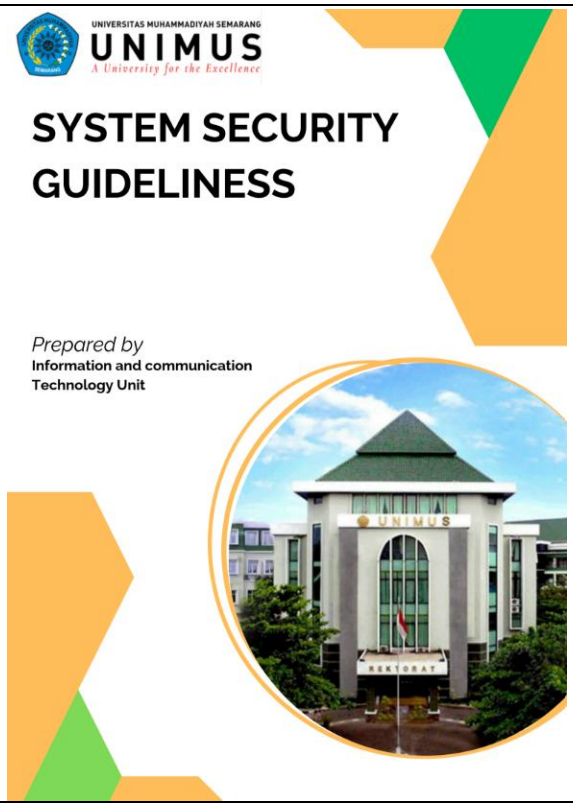
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[7] Governance and Digitalization (GD)

[7.14] Compliance with the General Data Protection Regulation (GDPR) or Equivalent National Data Protection Regulations (GD.8)



General Data Protection Regulation (GDPR) Guideline



SALINAN

PRESIDEN
REPUBLIK INDONESIA

UNDANG-UNDANG REPUBLIK INDONESIA
NOMOR 27 TAHUN 2022
TENTANG
PELINDUNGAN DATA PRIBADI

DENGAN RAHMAT TUHAN YANG MAHA ESA

PRESIDEN REPUBLIK INDONESIA,

Menimbang :
a. bahwa pelindungan data pribadi merupakan salah satu hak asasi manusia yang merupakan bagian dari pelindungan diri pribadi maka perlu diberikan landasan hukum untuk memberikan keamanan atas data pribadi, berdasarkan Undang-Undang Dasar Negara Republik Indonesia Tahun 1945;
b. bahwa pelindungan data pribadi ditujukan untuk menjamin hak warga negara atas pelindungan diri pribadi dan menumbuhkan kesadaran masyarakat serta menjamin pengakuan dan penghormatan atas pentingnya pelindungan data pribadi;
c. bahwa pengaturan data pribadi saat ini terdapat di dalam beberapa peraturan perundang-undangan maka untuk meningkatkan efektivitas dalam pelaksanaan pelindungan data pribadi diperlukan pengaturan mengenai pelindungan data pribadi dalam suatu undang-undang;
d. bahwa berdasarkan pertimbangan sebagaimana dimaksud dalam huruf a, huruf b, dan huruf c, perlu membentuk Undang-Undang tentang Pelindungan Data Pribadi;

Mengingat : Pasal 5 ayat (1), Pasal 20, Pasal 28G ayat (1), Pasal 28H ayat (4), dan Pasal 28J Undang-Undang Dasar Negara Republik Indonesia Tahun 1945;

Dengan . . .

SK No 016999 A

General Data Protection Regulation (GDPR) Regulation





Raising Awareness of Personal Data Protection in the UNIMUS Academic Community

Description:

Universitas Muhammadiyah Semarang (UNIMUS) demonstrates compliance with the principles of the General Data Protection Regulation (GDPR) through alignment with Law Number 27 of 2022 on Personal Data Protection (UU PDP) as the national personal data protection regulation in Indonesia. As concrete evidence, UNIMUS has established the "Panduan Keamanan Data dan Sistem" as a General Data Protection Regulation (GDPR) guideline, officially endorsed in 2023, which was prepared by Lembaga Media Center (LMC) and UPT Teknologi Informasi dan Komunikasi (UPT TIK) in accordance with the directives of the National Cyber and Crypto Agency (Badan Siber dan Sandi Negara / BSSN). The Guidelines encompass policies, standards, procedures, and operational procedures applicable to the entire academic community of Universitas Muhammadiyah Semarang.

At the institutional level, two principal units are responsible for the implementation of GDPR and UU PDP compliance at UNIMUS, namely Lembaga Media Center (LMC) and UPT Teknologi Informasi dan Komunikasi (UPT TIK). These two units collaboratively carry out the following functions: (a) the formulation and updating of institutional privacy and information security policies; (b) handling privacy compliance and mitigating risks in the processing of personal data across all UNIMUS digital systems; and (c) overseeing training and awareness programmes for the entire academic community. This division of roles ensures that the responsibility for personal data protection is integrated into the institutional governance structure with clear reporting and coordination lines.

As evidence of the implementation of data minimisation, purpose limitation, and consent mechanism principles, the Guidelines explicitly establish: (a) the prohibition of collecting personally identifiable data without explicit user consent, with collection limited only to necessary data; (b) classification of data processed, stored, or transmitted by applications, with identification of sensitive data in accordance with privacy laws; (c) prohibition of persistent cookies and the obligation to declare session cookies in the published privacy policy; and (d) prohibition of logging personal data such as passwords. UNIMUS implements comprehensive technical and organisational security measures, including mandatory encryption of user databases; unique user IDs with strong passwords and a history of the last 10 passwords; comprehensive audit trail logging (login, logout, authentication failures); periodic patch management; monthly vulnerability scanning; penetration testing at least once per year; and the use of Security Incident Event Management (SIEM) for early detection.

UNIMUS conducts comprehensive and tiered data protection and information security awareness programmes as mandated in the Guidelines: (a) the IT Security Unit is required to conduct security awareness training at least once per year for all employees, ensuring that every staff member is aware of the rules of conduct and their responsibilities in protecting the institution's mission; (b) training sessions per division/group covering specific information security topics (email handling, password changes, file sharing, phishing and pharmin threats); and (c) workshops and campaigns through the institutional website and social media.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

1) General Data Protection Regulation (GDPR) Guideline
https://drive.google.com/file/d/1MzoWsEd2V-31yPVwUHOUV_mf8uJWLEbv/view?usp=sharing

2) General Data Protection Regulation (GDPR) Regulation
https://drive.google.com/file/d/1wUv6mQThNQ1Ce_6R8ENFZtWOOCY36gKD/view?usp=sharing

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[7] Governance and Digitalization (GD)

[7.17] Ratio of Female Leaders to Total Institutional Leaders (GD.9)

Example:

Leadership Level	Total Leaders & Deputies	Female Leaders & Deputies
University Level	5	1
Faculty / School Level	49	32
Study Program Level	74	40
University-Level Units	47	20
Total	**175**	**93**

$$Ratio\ of\ Female\ Leaders = \frac{93}{175} x100 = 53{,}14\%$$

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file): bukti web
Universitas Muhammadiyah Semarang (UNIMUS) demonstrates its commitment to gender equality by maintaining approximately 53,14% female representation in leadership positions. This reflects the university's inclusive governance and equal opportunities for women in decision-making roles. Evidence is available on the official UNIMUS website at the following link:

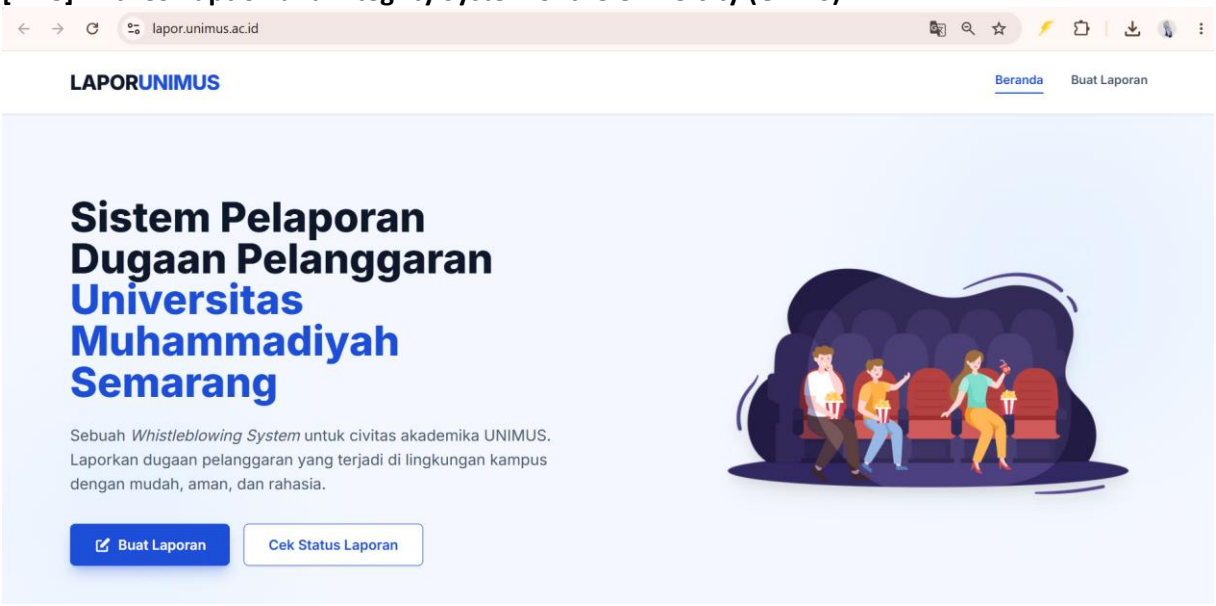
- https://unimus.ac.id/pimpinan-universitas-2/
- https://fkg.unimus.ac.id/struktur-organisasi/
- https://fehbi.unimus.ac.id/
- https://fiph.unimus.ac.id/struktur-organisasi/
- https://unimus.ac.id/pimpinan-lembaga/

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[7] Governance and Digitalization (GD)

[7.18] Anti-Corruption and Integrity System of the University (GD.10)



Example of anti-corruption and integrity system at Universitas Indonesia (https://lapor.unimus.ac.id/)

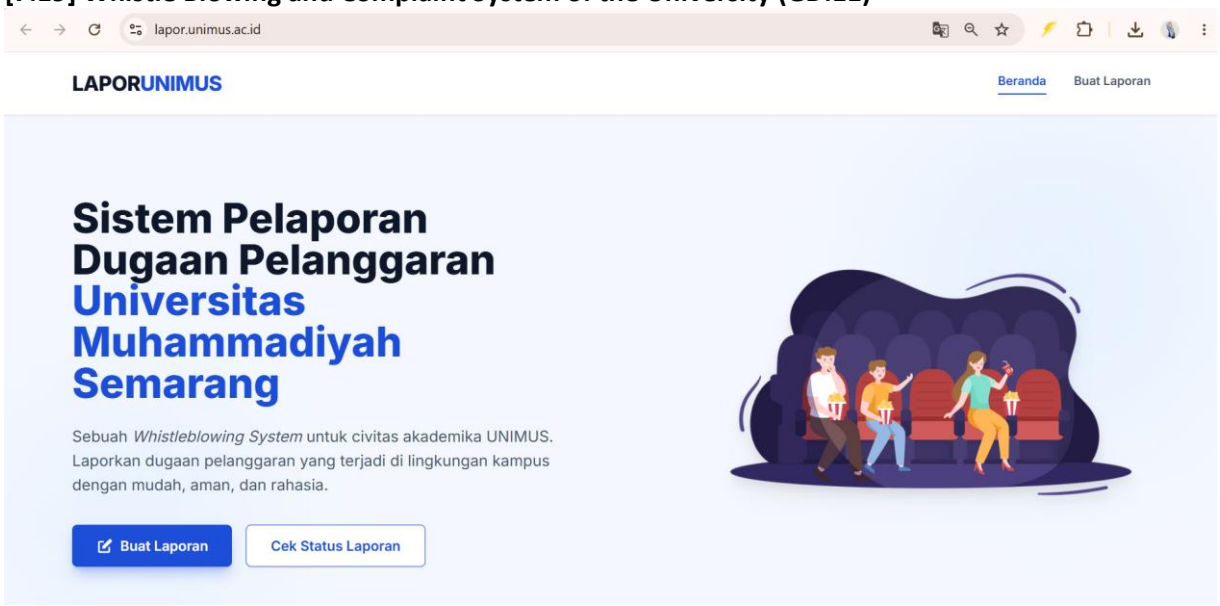
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : <https://greenmetric.unimus.ac.id/ > < https://sustainability.unimus.ac.id/ >

[7] Data and Governance (GD)

[7.19] Whistle Blowing and Complaint System of the University (GD.11)



Example of whistle blowing and complaint system at Universitas Indonesia (https://lapor.unimus.ac.id/)

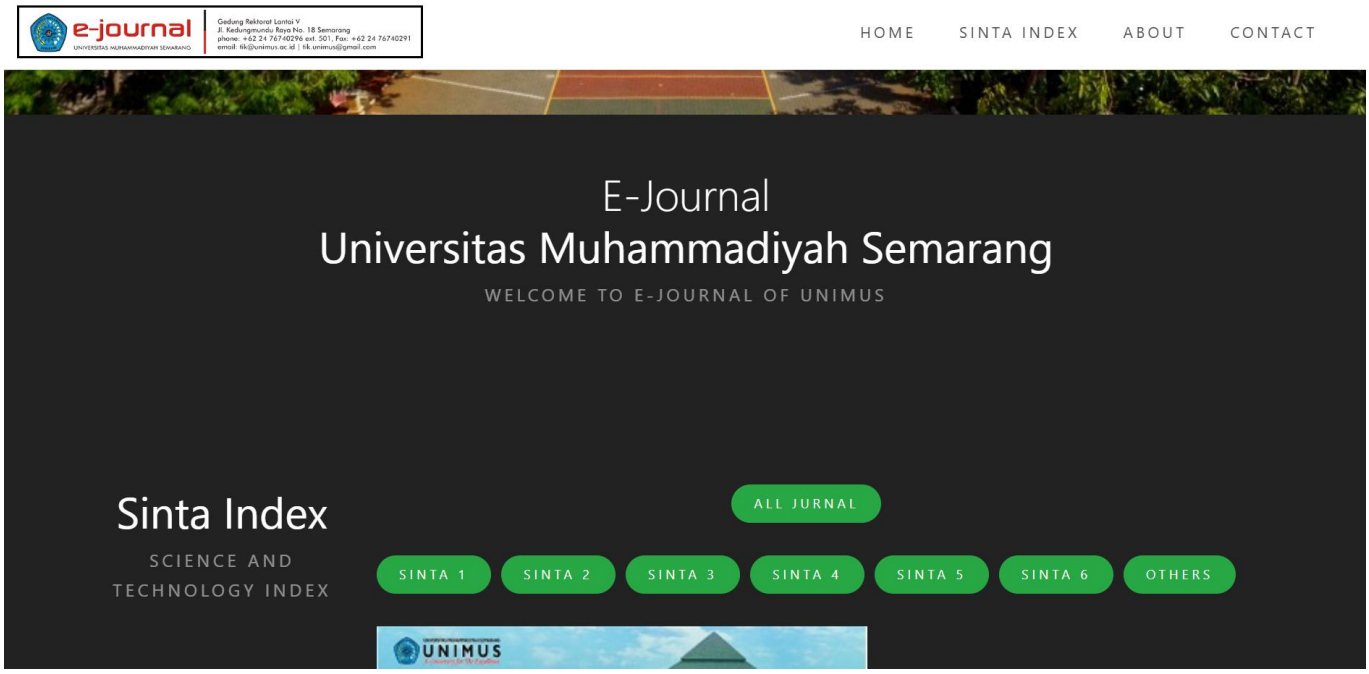
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

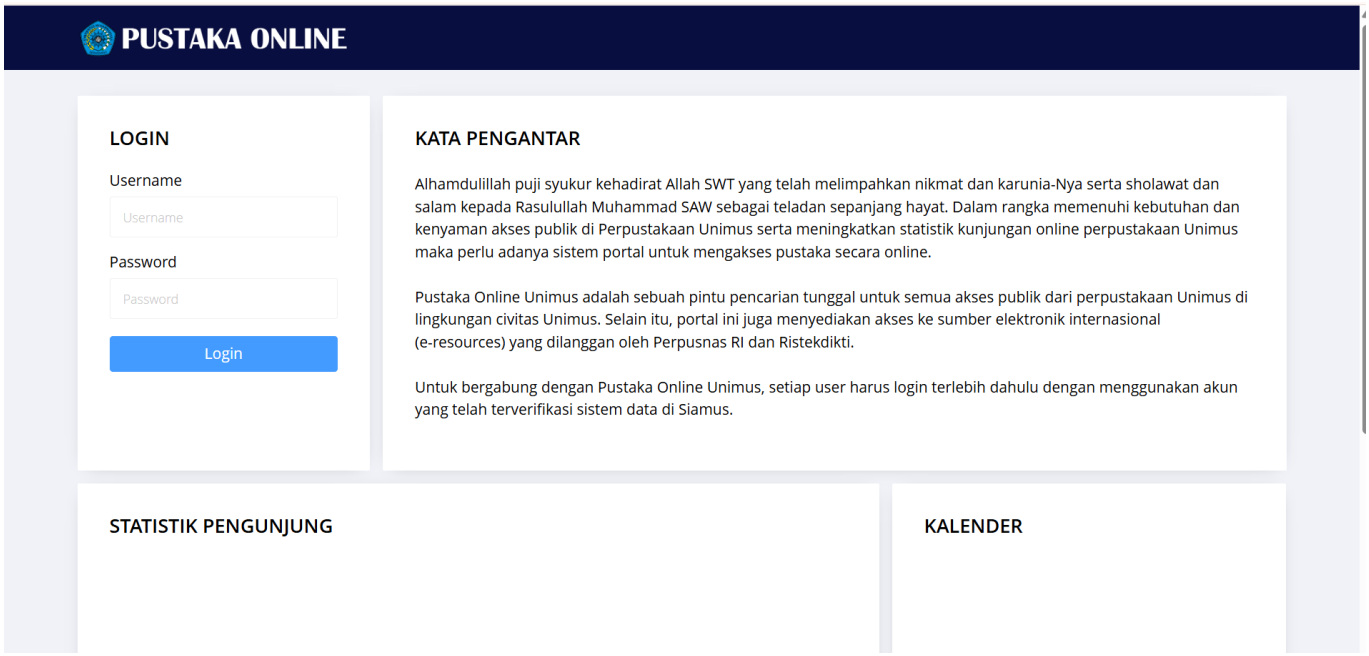
Template for Evidence(s)
UI GreenMetric Questionnaire

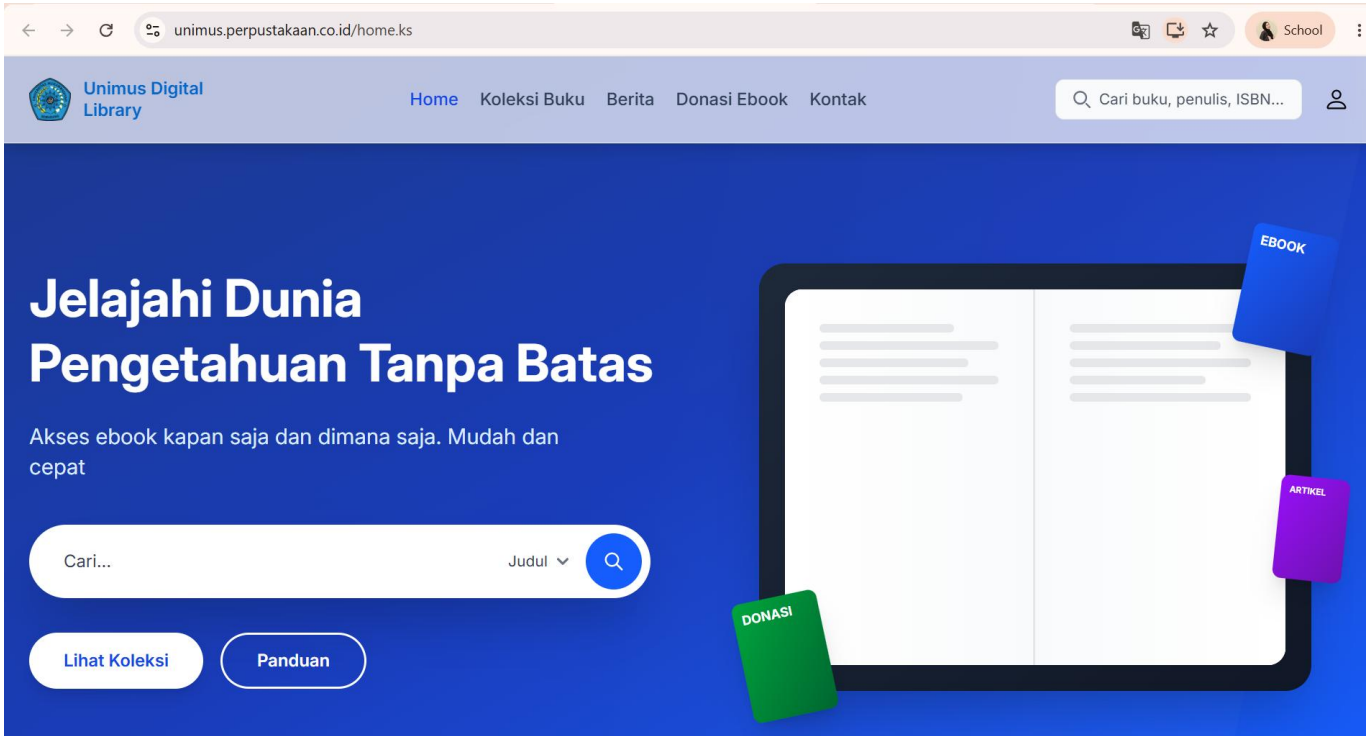
University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : <https://greenmetric.unimus.ac.id/ > < https://sustainability.unimus.ac.id/ >

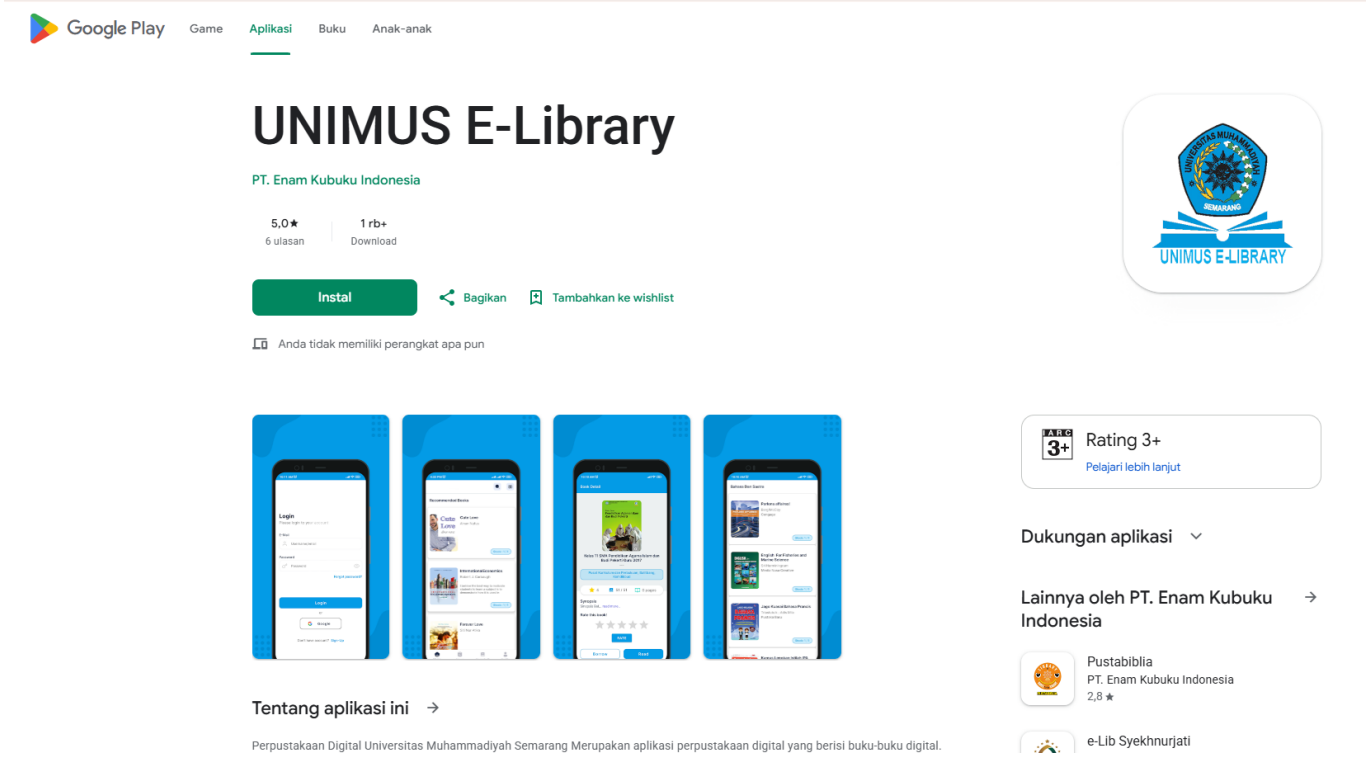
[7] Governance and Digitalization (GD)

[7.20] LMS-Enabled Digital Literacy Program (GD.12)




PUSTAKA ONLINE
LOGIN
Username
Username
Password
Password
Login
KATA PENGANTAR
Alhamdulillah puji syukur kehadirat Allah SWT yang telah melimpahkan nikmat dan karunia-Nya serta sholawat dan salam kepada Rasulullah Muhammad SAW sebagai teladan sepanjang hayat. Dalam rangka memenuhi kebutuhan dan kenyaman akses publik di Perpustakaan Unimus serta meningkatkan statistik kunjungan online perpustakaan Unimus maka perlu adanya sistem portal untuk mengakses pustaka secara online.
Pustaka Online Unimus adalah sebuah pintu pencarian tunggal untuk semua akses publik dari perpustakaan Unimus di lingkungan civitas Unimus. Selain itu, portal ini juga menyediakan akses ke sumber elektronik internasional (e-resources) yang dilanggan oleh Perpusnas RI dan Ristekdikti.
Untuk bergabung dengan Pustaka Online Unimus, setiap user harus login terlebih dahulu dengan menggunakan akun yang telah terverifikasi sistem data di Siamus.
STATISTIK PENGUNJUNG
KALENDER


unimus.perpustakaan.co.id/home.ks
School
Unimus Digital Library
Home
Koleksi Buku
Berita
Donasi Ebook
Kontak
Cari buku, penulis, ISBN...
Jelajahi Dunia Pengetahuan Tanpa Batas
Akses ebook kapan saja dan dimana saja. Mudah dan cepat
Cari...
Judul
Lihat Koleksi
Panduan
EBOOK
ARTIKEL
DONASI



Digital Literacy programs at Universitas Muhammadiyah Sematang : remote access to subscribed digital libraries around the world; e-journal and “pustaka online”

Description:
(*Please describe the implementation of Digital Literacy programs at the University*)

Digital literacy at Universitas Indonesia is implemented through coordinated programs led by different units. Programs conducted at Universitas Indonesia related to digital literacy:

1. E-Journal UNIMUS

UNIMUS promotes digital literacy through its E-Journal platform, which provides open access to scientific journals published by the university. The platform enables students, lecturers, researchers, and the public to search, access, publish, and utilize scholarly articles digitally. This initiative strengthens academic information literacy, supports research dissemination, and encourages the effective use of digital scholarly resources. Source: https://jurnal.unimus.ac.id/

2. Pustaka Online

UNIMUS provides Pustaka Online as a web-based digital library service that enables users to access subscribed electronic resources, digital collections, and library services remotely. The platform enhances users' abilities to search, retrieve, evaluate, and utilize digital information efficiently while supporting paperless learning and independent study. Source: https://pustaka.unimus.ac.id/login

3. UNIMUS Digital Library

The UNIMUS Digital Library serves as an integrated digital repository of e-books and academic resources that can be accessed by students, lecturers, and researchers. The platform supports digital literacy by facilitating access to

quality learning materials, encouraging information exploration, and promoting lifelong learning through digital resources. Source: https://unimus.perpustakaan.co.id/home.ks

4. UNIMUS E-Library Mobile Application

UNIMUS also provides a mobile E-Library application that allows users to access digital books and learning resources anytime and anywhere using mobile devices. The application improves digital accessibility, encourages reading habits in digital environments, and supports flexible learning beyond the classroom. Source: https://play.google.com/store/apps/details?id=id.kubuku.kbk1794294&hl=id

Template for Evidence(s)
UI GreenMetric Questionnaire

University : Universitas Muhammadiyah Semarang
Country : Indonesia
Web Address : https://greenmetric.unimus.ac.id/

[7] Governance and Digitalization (GD)

[7.21] Written Code of Ethics that applies to university leaders, academic staff, administrative staff, and students (GD.13)



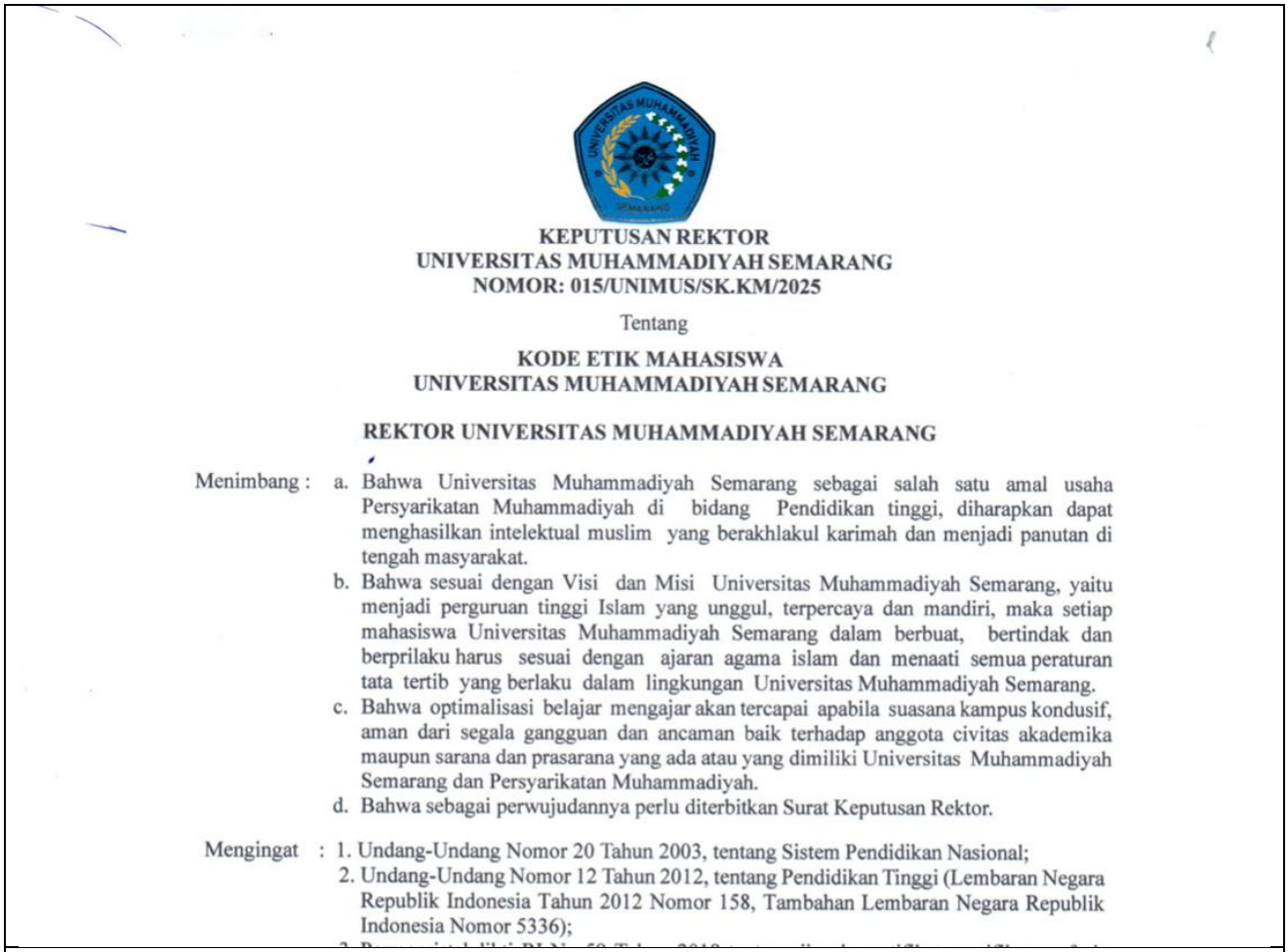
PERATURAN
UNIVERSITAS MUHAMMADIYAH SEMARANG
Nomor: 585/UNIMUS/SK.PP/2024
Tentang
STANDAR ETIK DOSEN DAN TENAGA KEPENDIDIKAN

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang :
a. Bahwa dalam rangka penyusunan standar etik dosen dan tenaga kependidikan yang sesuai dengan visi misi universitas;
b. Bahwa dalam rangka berupaya agar tercipta standar etik dosen dan tenaga kependidikan yang baik dan efisien;
c. Bahwa untuk kepentingan tersebut di atas perlu diterbitkan Peraturan Rektor Universitas Muhammadiyah Semarang tentang Standar Etik Dosen dan Tenaga Kependidikan Universitas Muhammadiyah Semarang;

Mengingat :
1. Undang-Undang RI No. 20 tahun 2003 tentang Sistem Pendidikan Nasional (Lembaran Negara Republik Indonesia No. 78, Tambahan Lembaran Negara Republik Indonesia Nomor 4301);
2. Undang-Undang RI No. 12 tahun 2012 tentang Pendidikan Tinggi

Code of Ethics rule at Universitas Muhammadiyah Semarang through Rectors Decree No. 585/UNIMUS/SK.PP/2024



KEPUTUSAN REKTOR
UNIVERSITAS MUHAMMADIYAH SEMARANG
NOMOR: 015/UNIMUS/SK.KM/2025

Tentang

KODE ETIK MAHASISWA
UNIVERSITAS MUHAMMADIYAH SEMARANG

REKTOR UNIVERSITAS MUHAMMADIYAH SEMARANG

Menimbang :
a. Bahwa Universitas Muhammadiyah Semarang sebagai salah satu amal usaha Persyarikatan Muhammadiyah di bidang Pendidikan tinggi, diharapkan dapat menghasilkan intelektual muslim yang berakhlakul karimah dan menjadi panutan di tengah masyarakat.
b. Bahwa sesuai dengan Visi dan Misi Universitas Muhammadiyah Semarang, yaitu menjadi perguruan tinggi Islam yang unggul, terpercaya dan mandiri, maka setiap mahasiswa Universitas Muhammadiyah Semarang dalam berbuat, bertindak dan berprilaku harus sesuai dengan ajaran agama islam dan menaati semua peraturan tata tertib yang berlaku dalam lingkungan Universitas Muhammadiyah Semarang.
c. Bahwa optimalisasi belajar mengajar akan tercapai apabila suasana kampus kondusif, aman dari segala gangguan dan ancaman baik terhadap anggota civitas akademika maupun sarana dan prasarana yang ada atau yang dimiliki Universitas Muhammadiyah Semarang dan Persyarikatan Muhammadiyah.
d. Bahwa sebagai perwujudannya perlu diterbitkan Surat Keputusan Rektor.

Mengingat :
1. Undang-Undang Nomor 20 Tahun 2003, tentang Sistem Pendidikan Nasional;
2. Undang-Undang Nomor 12 Tahun 2012, tentang Pendidikan Tinggi (Lembaran Negara Republik Indonesia Tahun 2012 Nomor 158, Tambahan Lembaran Negara Republik Indonesia Nomor 5336);

Code of Students Ethics rule at Universitas Muhammadiyah Semarang through Rectors Decree No. 015/UNIMUS/SK.KM/2025

Description:

Universitas Muhammadiyah Semarang (UNIMUS) has established a written Code of Ethics to uphold integrity, professionalism, accountability, and ethical conduct across the university community. The Code of Ethics provides standards of behavior for university leaders, academic staff, administrative staff, and students in carrying out academic, administrative, research, community engagement, and institutional responsibilities. It promotes honesty, fairness, respect, non-discrimination, academic freedom, responsible use of authority, and compliance with applicable laws and university regulations.

The Code of Ethics also emphasizes ethical conduct in teaching and learning, research integrity, publication ethics, community service, collegial relationships, and interactions with students and external stakeholders. To ensure effective implementation, UNIMUS establishes procedures for reporting, investigating, and resolving ethical violations through designated ethics mechanisms, accompanied by disciplinary measures in accordance with university regulations. Through this framework, UNIMUS fosters a culture of integrity, transparency, mutual respect, and responsible governance while supporting the achievement of its vision, mission, and institutional values.

Universitas Muhammadiyah Semarang (UNIMUS) has established a comprehensive Student Code of Ethics to promote integrity, discipline, responsibility, and ethical conduct among all students. The Code of Ethics outlines students' rights and responsibilities, standards of academic and non-academic behavior, academic integrity, mutual respect, non-discrimination, proper use of university facilities, and compliance with university regulations. It also regulates student organizational activities, demonstrations, the use of university identity and logos, and conduct both on and off campus. To ensure accountability and fairness, the Code of Ethics defines categories of violations, disciplinary procedures, authorized decision-making bodies, and proportional sanctions. Through this framework,

UNIMUS fosters a safe, respectful, inclusive, and conducive academic environment while supporting students' personal development and the university's institutional values.

Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):
https://sustainability.unimus.ac.id/wp-content/uploads/2026/04/238-SK-HK-2013-Kode-Etik-dan-Peraturan-Disiplin-Dosen-.pdf
https://drive.google.com/file/d/1tsYlp-zVZPEG3mXMyy8hkVBqKOaxaUUL/view?usp=drive_link