

2025 Sustainability Report



Presented by
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Introduction



In the early 1960s, community leaders and scholars in Central Java –especially in Semarang – recognized the need for an Islamic university with modern teaching and research facilities. To meet this need, the Sultan Agung Waqf Foundation (Yayasan Badan Wakaf Sultan Agung, YBWSA) established Universitas Islam Sultan Agung (UNISSULA), which was inaugurated on May 20, 1962 (16 Dzulhijjah 1381 H).

As a private Islamic university under the auspices of YBWSA, UNISSULA has grown into a leading institution in Semarang, Central Java. Over the decades it has expanded its academic offerings and today comprises a broad range of faculties and postgraduate programs serving Indonesia and the wider Muslim world.

UNISSULA is committed to advancing the Sustainable Development Goals (SDGs) through initiatives in campus setting & infrastructure, energy & climate action, waste and water management, sustainable transportation, and research & education - mobilizing lecturers, students, and campus units to foster a safe, healthy, and sustainable academic environment.

University Overview



Vision

To be a leading Islamic university that nurtures a khaira ummah generation, advances science and technology grounded in Islamic values, and helps build Islamic civilization toward a prosperous society blessed by Allah SWT within the spirit of rahmatan lil ‘alamin.

Mission

-
- Reconstruct and develop science and technology based on Islamic values.
 - Educate and develop Islamic human resources at all levels and disciplines to build the khaira ummah and cadre scholars (tafaqquh fid-din), prioritizing noble character, top-tier scholarship and expertise, and readiness for leadership and da’wah.
 - Strengthen community service to build Islamic civilization toward a prosperous society blessed by Allah SWT in the rahmatan lil ‘alamin framework.
 - Continuously improve the institution dynamically in line with advances in science/technology and societal development.



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UNIVERSITAS ISLAM SULTAN AGUNG

Setting & Infrastructure

Implementation



Health & Infrastructure

UNISSULA provides integrated health services and inclusive campus infrastructure clinic and teaching-hospital network, clean water & sanitation, and accessible public facilities.



Accessibility for People with Disabilities

Fully operational accessible facilities are provided in every UNISSULA building.



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UNISSULA Conservation Program

Advancing SDG 2 (Zero Hunger) & SDG 15 (Life on Land) through fully implemented, ongoing conservation agriculture on campus and with the community.

Campus Site



Area



Forest

26%



Water
Absorption

56%



Planted
Vegetation

35%

Total Area: 336,570 m²





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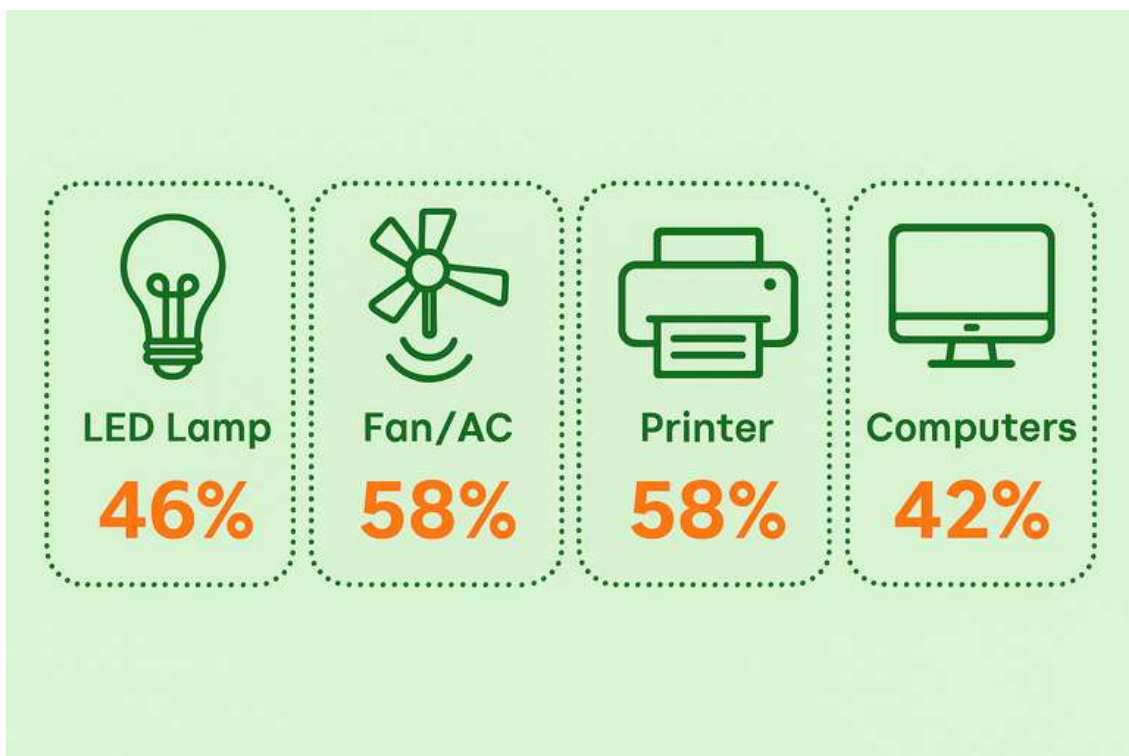
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UNIVERSITAS ISLAM SULTAN AGUNG

Energy & Climate Change

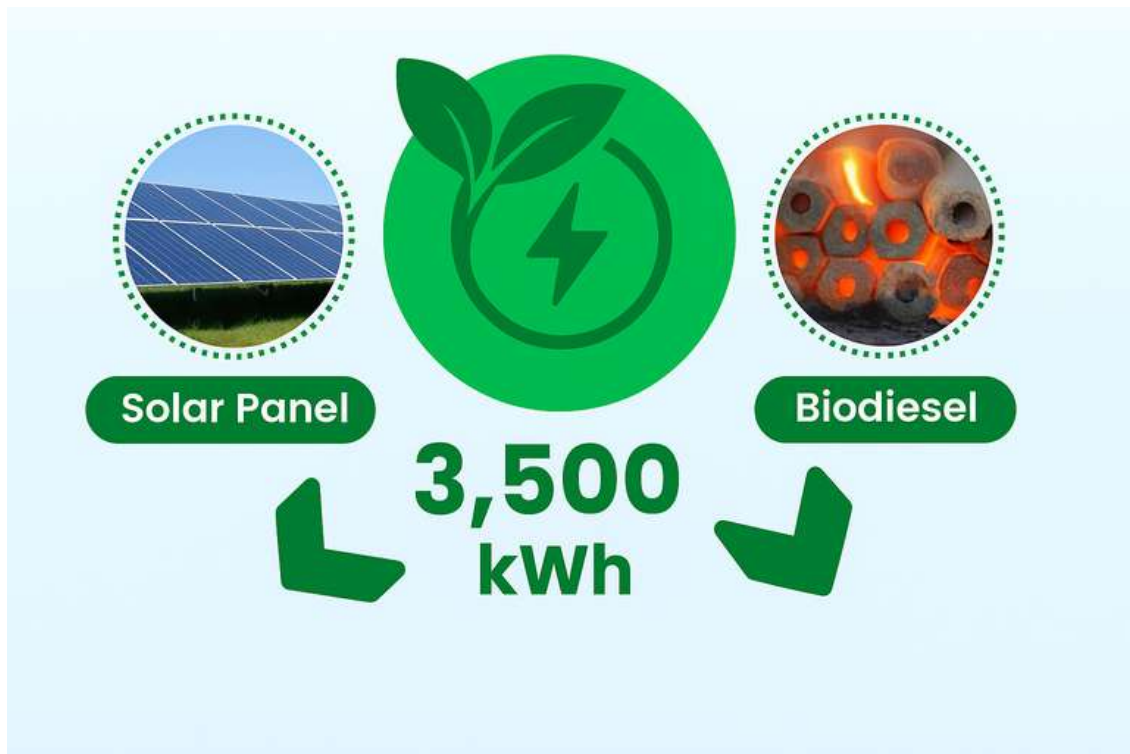
Implementation

Universitas Islam Sultan Agung (UNISSULA) has taken significant steps to improve energy efficiency, reaffirming its commitment to Sustainable Development Goal 7: Affordable and Clean Energy.

Energy Efficient Appliances Usage



The Total Production of Renewable Energy



Universitas Islam Sultan Agung (UNISSULA) integrates rooftop solar PV with biodiesel generation to deliver a total of 3,500 kWh of renewable energy. The solar system supplies daytime loads, while biodiesel provides reliable, low-emission backup and peak support. This mix strengthens campus energy resilience and advances Affordable and Clean Energy (SDG 7).

Green Building Implementation



UNISSULA applies green building design with wide glazing, open corridors, and cross-ventilation to maximize daylight and natural airflow. These strategies reduce cooling and lighting demand, improving energy efficiency and user comfort in line with UI GreenMetric.



UNISSULA integrates green building design with open spaces and natural landscaping that enhance air circulation and reduce heat. The use of greenery around buildings supports energy efficiency and creates a cooler, more comfortable learning environment.



UNISSULA implements green building concepts by integrating greenhouse facilities that support urban farming and sustainable research. The structure uses natural lighting and ventilation to reduce energy use and promote eco-friendly food production.



UNISSULA applies green building principles through the use of skylight roofing that optimizes natural daylight and reduces electricity consumption. This design enhances indoor brightness while supporting energy efficiency and sustainability.

Smart Building Implementation at the UNISSULA



UNISSULA Smart Building combines a Building Management System (BMS), sub-metered energy monitoring, and environmental sensors to optimize electricity and water use while maintaining thermal comfort and safety. The HVAC system is demand-controlled, façade shielding reduces heat gain, Solar Panel LED supports efficient lighting, and integrated CCTV plus fire-fighting equipment protect the facility. Real-time dashboards enable anomaly alerts, peak-load analysis, and predictive maintenance—advancing SDGs 7, 9, 11, and 13 across a total area of 4,865.52 m².





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TEMPAT SAMPAH PINTAR

ANIK

BIOMASSA

PLASTIK

KE

Waste

Universitas Islam Sultan Agung (UNISSULA) is committed to campus-wide sustainable waste management grounded in the 3R principles reduce, reuse, recycle and a circular-economy approach. Programs such as the UNISSULA Waste Hub, IWTP, Circular Studio, and composting turn waste into resources.

Reduce, Reuse & Recycling Program



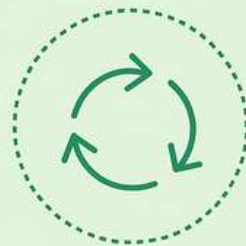
UNISSULA
Waste Hub



Integrated
Waste
Treatment
Plant (IWTP)



Sebeling
(Ecobrick &
Ecoenzyme)



UNISSULA
Circular
Studio



UNISSULA
Circular
Studio



Pit Compost
& Compost Bag

More than **90%**
of the waste generated at
Universitas Islam Sultan
Agung was recycled

Reduce The Use of Paper & Plastic Program



The infographic showcases four UNISSULA sustainability initiatives, using green line icons on a light green background: UNISSULA Green Printing, My UNISSULA App, Refill & Reuse Program, and Campus Reusable Logistics. The two-column layout keeps the message simple and consistent with the university's green identity.

Organic Waste Treatment



UNISSULA ensures 100% organic waste treatment through an Integrated Waste Treatment Plant (IWTP), pit composting & compost bags, and biochar production.

Inorganic Waste

90%

Universitas Islam Sultan Agung (UNISSULA), waste is recycled through sorting and reprocessing at the UNISSULA Waste Hub / IWTP. To engage students and promote sustainable habits, UNISSULA runs the Seberling (Ecobrick & Ecoenzyme) program and the UNISSULA Circular Studio for upcycling. Residuals are sold or transferred to licensed third-party recyclers, while any hazardous/e-waste goes to authorized handlers.



Toxic Waste Handling

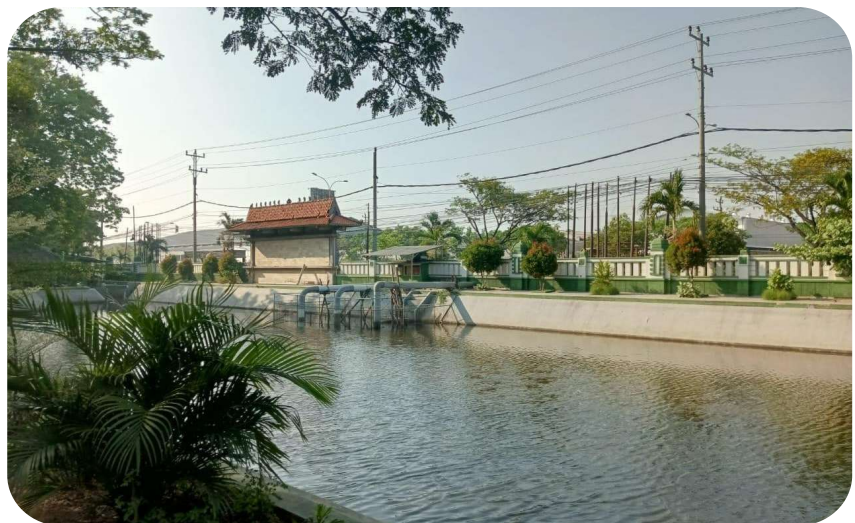
100%

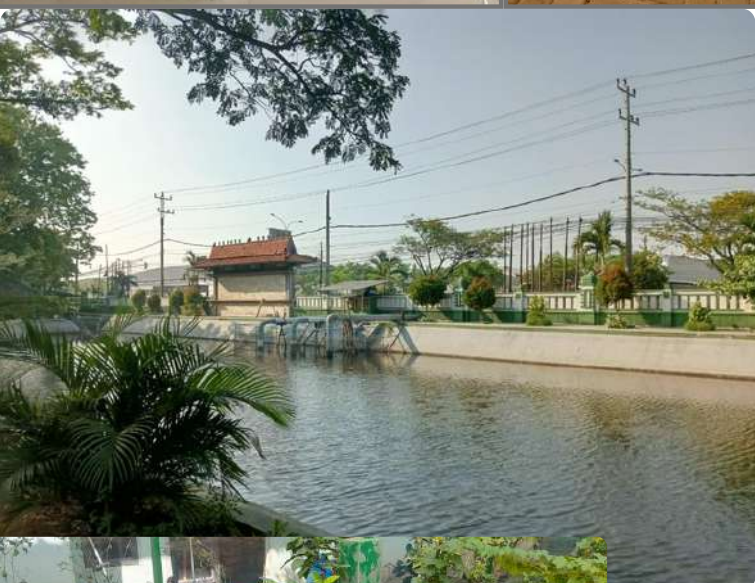
Universitas Islam Sultan Agung (UNISSULA), hazardous and toxic waste (B3) is managed in collaboration with licensed third-party handlers. Before transfer, the waste is segregated, securely packaged, labeled, and documented, then handed over with proper chain-of-custody in accordance with applicable regulations.



Tertiary Treatment & Sewage Disposal

Universitas Islam Sultan Agung (UNISSULA), sewage is recycled through tertiary treatment at campus wastewater units and at Sultan Agung Islamic Hospital (RSI Sultan Agung), enhancing effluent quality and advancing campus sustainability. The treated (non-potable) water is reused for fish ponds, landscape/ornamental plants, and controlled drainage recharge, showcasing good conservation practice and supporting SDG 6.







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Water

Water Conservation Program and Implementation



Water Conservation – Rain Water Collection

UNISSULA captures rooftop rainwater across priority buildings to cut mains-water use and ease urban runoff. Gutters feed a first-flush diverter and leaf screen, then water enters above-ground storage tanks (non-potable). Basic polishing (sediment/carbon filters) readies it for landscape irrigation, cleaning, pond top-ups, and selected toilet flushing. Overflow is directed to infiltration wells, bioswales, and biopores for groundwater recharge supporting SDG 6, 11, and 13.

Water Conservation – In-Ground Water Tank

UNISSULA stores harvested rainwater (and other non-potable recoverable water) in in-ground tanks to save courtyard space, reduce evaporation/algae growth, and stabilize temperature. The stored water is reused for landscape irrigation, floor/area cleaning, pond top-ups, and selected toilet flushing, cutting demand on the municipal supply and mitigating stormwater runoff advancing SDG 6, 11, and 13.



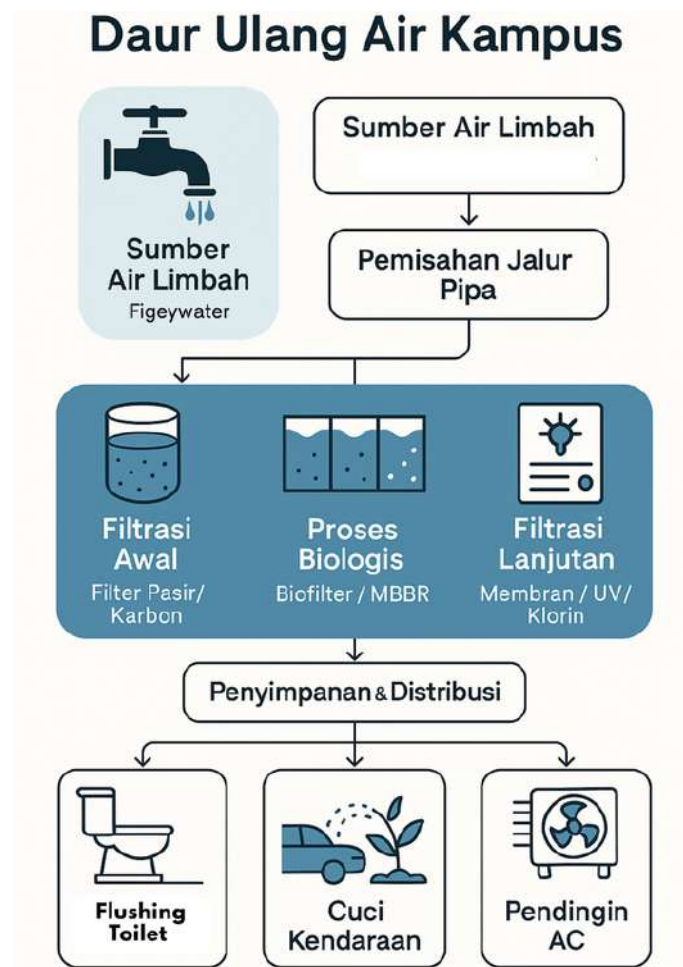
Water Conservation – Campus Lake

UNISSULA uses a campus lake/retention pond to capture stormwater from roofs and grounds, dampen peak runoff, and create a living water-habitat. The lake settles sediment, supports groundwater recharge via pervious edges/infiltration wells, and supplies non-potable reuse (landscape irrigation and pond top-ups) after basic polishing advancing SDGs 6, 11, 13, and 15.

Water Recycling Program Implementation

Water Recycling Program – Universitas Islam Sultan Agung (UNISSULA)

Universitas Islam Sultan Agung (UNISSULA) has implemented a campus water recycling system as part of its sustainable water management initiative under the UI GreenMetric program. The system aims to reduce freshwater consumption and prevent environmental pollution by reusing treated greywater for non-potable purposes across the campus.



The process begins with the collection of greywater from sources such as sinks, showers, and air conditioner condensate. This wastewater is then directed through separate piping to the treatment unit, where it undergoes several purification stages:

1. Pre-filtration using sand and activated carbon filters to remove suspended solids and odors.
2. Biological treatment through a biofilter or Moving Bed Biofilm Reactor (MBBR) to degrade organic materials.
3. Advanced filtration and disinfection using membrane filtration, ultraviolet (UV), or chlorination to ensure safety and clarity.

Water Efficient Appliances Usage



Universitas Islam Sultan Agung (UNISSULA) has equipped 83% of its campus buildings with high-efficiency water-saving devices, including automatic sensor taps, dual-flush toilets, and efficient urinal systems.

Consumption of Treated Water

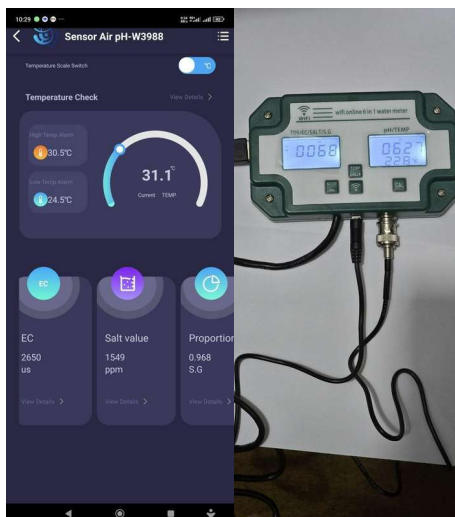


Universitas Islam Sultan Agung (UNISSULA) meets more than 75% of its water needs with treated and recycled water, which includes the campus drinking water supply system, wastewater treatment, and rainwater harvesting facilities. This initiative ensures efficient water management and supports the university's sustainability goals.

ID (versi Indonesia):



Water Pollution Control



Universitas Islam Sultan Agung (UNISSULA) demonstrates its strong commitment to water pollution control through the implementation of policies for regular water audits and quality testing across the campus. In accordance with environmental regulations, these policies are supported by the installation and operation of Wastewater Treatment Plants (WWTPs) to ensure that all discharged water meets the required quality standards.





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Transpotation

Universitas Islam Sultan Agung (UNISSULA) is committed to reducing campus carbon emissions by shifting from private vehicles to low-emission campus mobility. The policy is implemented through:

- (1) electric shuttle buses serving main corridors
- (2) campus e-buggies/minivans for short trips and accessibility
- (3) bicycle facilities and campus bikes for students
- (4) light electric bikes/scooters for internal mobility (see photos). These measures cut short car/motorcycle trips on campus and support a safer, cleaner, and quieter academic environment.



The program aims to reduce and optimize surface parking on campus while promoting low-emission mobility. Key actions include: establishing multi-purpose/perimeter parking areas, developing a Joint Parking Building, providing free campus buses and free bicycle rentals, operating shuttle services in collaboration with Trans Semarang, enforcing car-free zones with designated parking outside the core area, and implementing one-way road schemes on selected campus roads to improve safety and traffic flow.



Ratio of total main
campus area used
as a parking lot.

0.99%
Parking Lot



Zero Emission Vehicles (ZEV)

The total number of Zero Emission Vehicles (ZEV) divided by the total campus population is 0.0095

The total number of vehicles (car and motorcycles) divided by total campus population is 0.0425



Pedestrian Path



Universitas Islam Sultan Agung (UNISSULA) prioritizes a green and safe campus by providing comfortable pedestrian paths equipped with universal accessibility features—including ramps, handrails, and tactile paving. To enhance safety, the walkways are supported by speed bumps/traffic calming, solar-powered pathway lighting, and clear wayfinding signage. These measures encourage walking, reduce vehicle dependence, and create an inclusive environment for all users.



Shuttle Service

**UNISSULA
BUS SHELTER**

Untuk memudahkan akses menuju dari dan ke kampus.
Unissula menyediakan penjemputan bus di beberapa tempat

Perempatan ke-2 Genuk Indah
SPBU Jumadil Qubro
Alfamart Gebang Anom

Penjemputan mulai
07.00
WIB

Informasi Penjemputan :
0812 1570 8639

[@yourunissula](#) Universitas Islam Sultan Agung
www.unissula.ac.id



Universitas Islam Sultan Agung (UNISSULA) provides a free and eco-friendly campus shuttle service to support sustainable transportation and reduce private vehicle use. The shuttles operate on environmentally friendly fuel (Biosolar) and serve as a convenient, safe, and accessible mode of transport for students and staff throughout the campus.



UNISSULA BUS SHELTER

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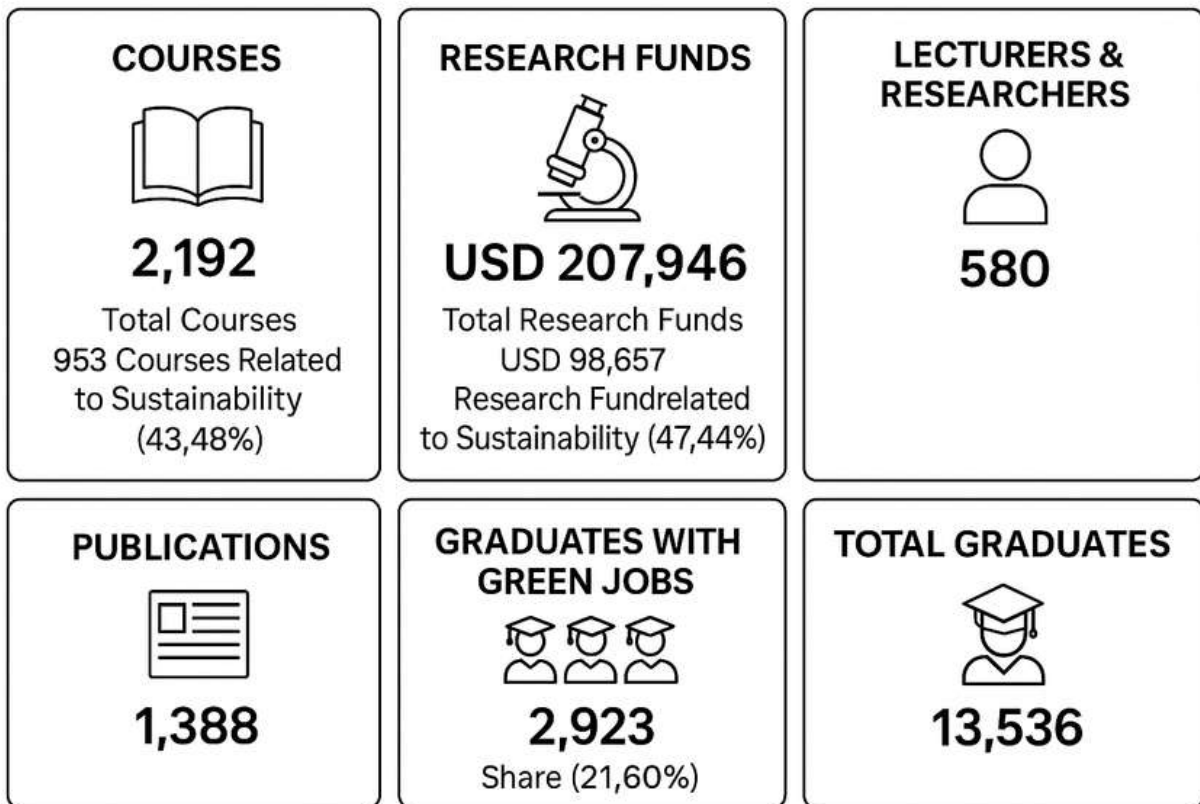


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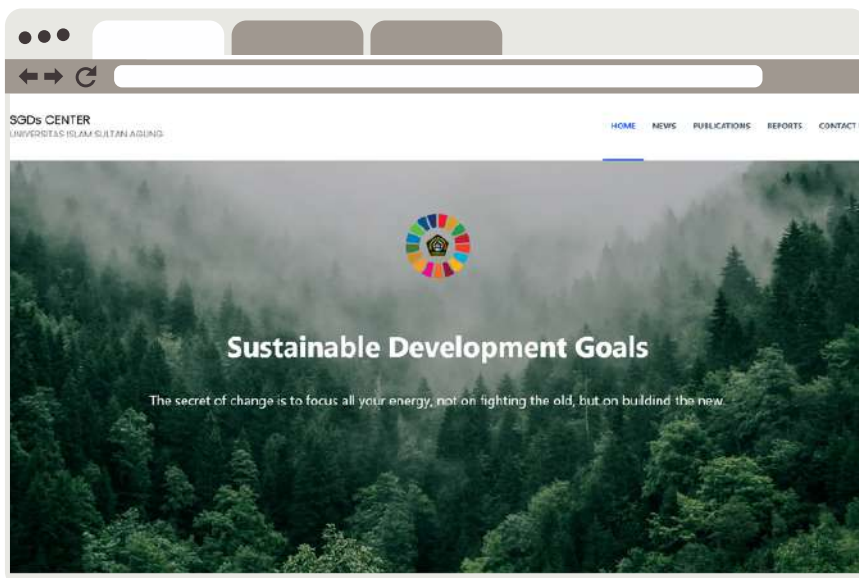
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Education &
Research



Sustainability





NISSULA **LBH** **PEOPLE'S WATER FORUM**

DISKUSI TATA RUANG 2024

"Diskusi Banjir di Jawa Tengah"

PEMBICARA

Cornelius Gea, S.H.
Penulis Kertas Posisi Males Dadi Sogero

Syukron Syalam, S.H., S.H.I., M.H.
Tim Penulis Buku Sudah Nalik Selehar
Dosen Fakultas Teknik UNISSULA

Dr. Hj. Mita Karmilah, S.T., M.T.
Tim Penulis Buku Ciyok-Oyak Banyar
Dosen Perencanaan Wilayah dan Kota UNISSULA

Pak Ashar
Warga Timbuloko

Rabu, 27 Maret 2024

Ruang Seminar LT2
Gedung Fakultas Teknik UNISSULA

15.00 - 17.00 WIB

DIBUKA UNTUK UMUM

HTM FREE!

FASILITAS

- E-Sertifikat
- Free Snack Takjil
- Relasi
- Ilmu yang Bermanfaat

PENANAMAN MANGROVE
Planting Mangrove That Save Our Beach

Include:

- Bibit Mangrove
- Maskin & Mijum
- Sticker
- Kebersamaan

Contact Person:
0821-3337-9547 (Dendy)
0858-8357-1099 (Cafu)

HTM 15RB

25 JUNI 2022
PANTAI TIRANG

MADATEK INJENIJA

Urban Planning Competition 2025

"Perencanaan Wisata Rehabilitasi Kawasan Pantai Mangunharjo dengan Konsep Nature Based Solution"

Total Hadiah 9 Juta
*untuk 3 pemenang

UNISSULA - UTM INTERNATIONAL COLLABORATIVE PROGRAM

THE 8TH UIICP 2023

JUNE 6TH - 8TH, 2023
at Faculty of Economics UNISSULA

Key Features:

- Guest Lecture
- Partnership Discussion
- International Community Service
- International Seminar
- Joint Research
- International Program
- Student Presentation

Important Mat:

Hanif Ahmar
Pungky Lela

8998872
8123452

PEMBEKALAN KKN TEMATIK BERBUDAYA AKADEMIK ISLAMI UNIVERSITAS ISLAM SULTAN AGUNG PERIODE XVIII

Sinergitas Perguruan Tinggi dan Masyarakat dalam Pembangunan Berkelanjutan untuk Mewujudkan Indonesia Emas

Semarang, 6 Juli 2024



INTERNATIONAL CONFERENCE U-PLAN#1 2025

"Future Challenges Of Inclusive, Responsive and Innovative Spatial Planning"

Engineering Faculty, Universitas Islam Sultan Agung

April 22-23th 2025

CALL FOR PAPERS

HYBRID CONFERENCE (Offline & Online)

Website: <https://fm.unissula.ac.id/u-plan>

Keynote Speaker:

Taj Yasin Maimoon
Vice Governor of Central Java



Empowering a greener future through action and commitment.

Universitas Islam Sultan Agung is steadfast in advancing sustainability across teaching, research, operations, and community service. With leadership, inclusivity, and innovation as our pillars, we aim to stand among the leading green campuses in Indonesia and the world.