



SUSTAINABILITY REPORT 2023

ESA UNGGUL UNIVERSITY



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- 2. Energy**
- 3. Waste**
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1

Setting and Infrastructure

Number of campus site



Esa Unggul
University –
Kebon Jeruk –
West Jakarta
Indonesia

Description:

Esa Unggul University (UEU) was founded in 1993 under the auspices of The Kemala Bangsa Education Foundation, a leading private university and one of the best private universities in Indonesia with a VISION, which is to become a world-class institution based on intellectuality, creativity and entrepreneurship. UEU's location is in a strategic area in the area of higher education in the West Jakarta area. Set in extensive greenery and around a lake, University is the focus of life for students, staff and visitors. Comitted for green campus program to support International declaration for better environment our facility conduct high standart and ergonomial for use, we have convering area of 4,5ha, with 40 percent is green coverage.

Esa Unggul continues develop as an “Urban Green Campus” of the community.



Esa Unggul
University –
Bekasi - West
Java- Indonesia

Description:

UEU Bekasi is located in a strategic area in Bekasi - West Java. The university is the focus of life for students, staff and visitors. Equipped with a green campus program to support the international declaration for a better environment, our facilities are high standard, smart building and ergonomic to use, we have a conversion area of 3 ha, with 60 percent being green coverage.

Esa Unggul continues to develop into an “Urban Green Campus” community.



Esa Unggul
University –
Tangerang -
West Java-
Indonesia

Description:

UEU Tangerang is the 3rd campus which has just been completed and is located in a strategic area in Tangerang - Banten. This building also uses a smart building system. The University is the focus of life for students, staff and visitors. Equipped with a green campus program to support the international declaration for a better environment, our facilities are of high standard, the buildings are smart and ergonomic to use, we have a conversion area of 1.5 ha, with 60 percent green coverage and will continue to develop into a community "Campus Urban Green".

ESA UNGGUL – JAKARTA



Description:

Esa Unggul is located in a urban area with 60 percent of forest cover.

Esa Unggul is located in the west part of DKI Jakarta. The address of esa unggul is Jl.Arjuna Utara No.9 this mean high population density of 17.413 in population per km²

Additional evidence link:

https://id.wikipedia.org/wiki/Duri_Kepa,_Kebon_Jeruk,_Jakarta_Barat

ESA UNGGUL – BEKASI





Description:

ESA Unggul Bekasi is located in a residential city area with an open space area of 70 percent. The campus is still in the final stages of tidying up, which uses smart building systems and also the development of greening open areas. Esa Unggul is located in Bekasi - West Java. The address of esa unggul is Jl. Harapan Indah Boulevard No.2, Pusaka Rakyat, Kec. Tarumajaya, Bekasi, West Java 17214 this means a high population density of 650 in population per km².

Additional evidence link:

https://id.wikipedia.org/wiki/Pusaka_akyat,_Tarumajaya,_Bekasi

ESA UNGGUL - TANGERANG



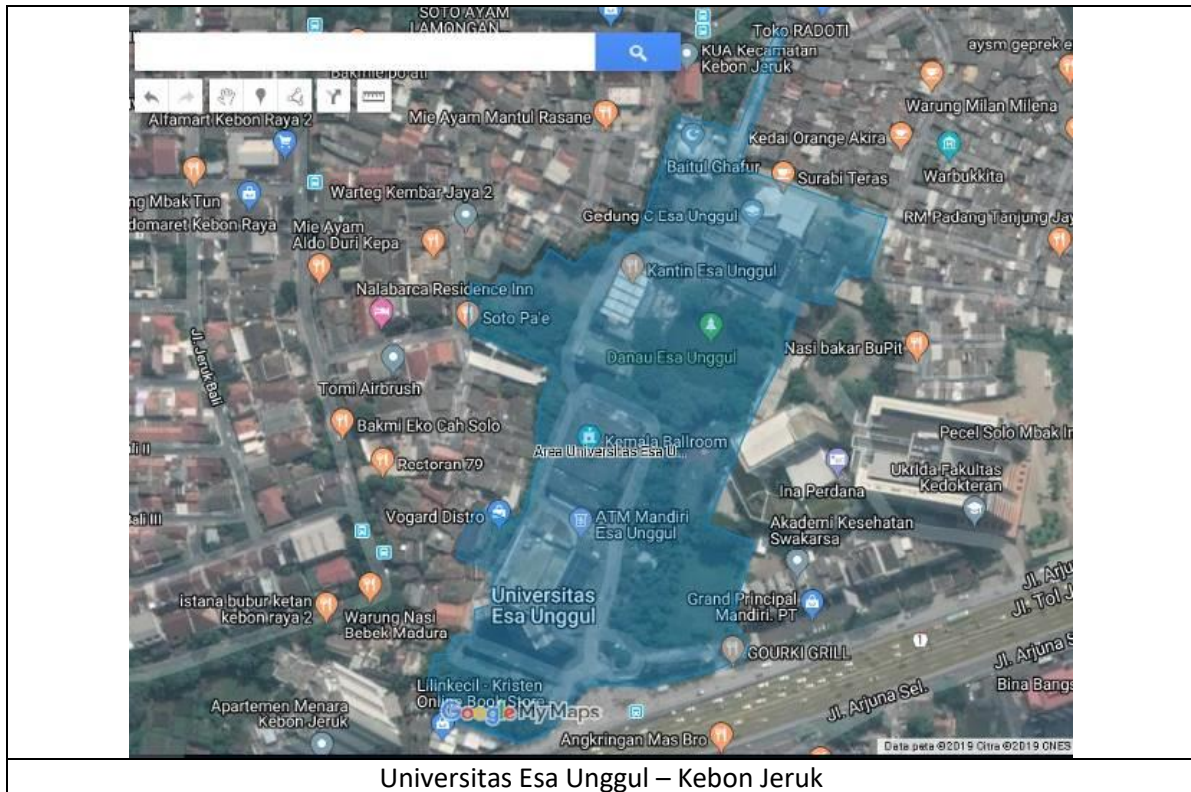
Description:

Esa Unggul Tangerang is located in a residential area with an area of 75 percent open space. This campus is still in the final stages of revamping, which uses a smart building system. Esa Unggul is located in Tangerang - West Java. Esa Superior's address is Jl. Citra Raya Boulevard Ciakar, Kec. Panongan, Tangerang, Banten 15710. With an area of 7.6 km² Ciakar village, the population density is 162 people per km², which means the population in the area is still low.

Additional evidence link:

https://id.wikipedia.org/wiki/Ciakar,_Panongan,_Tangerang

Total Campus Area (meter²)



Description:

Total area: 40497m²

Total distance/circumference: 1,2 km

Additional evidence link:

<https://www.google.com/maps/place/Universitas+Esa+Unggul/@-6.1850598,106.7788035,18z/data=!4m5!3m4!1s0x2e69f6f9d35766d1:0x9ac2dec76f747b31!8m2!3d-6.1858081!4d106.7788659>





UNIVERSITAS ESA UNGGUL – BEKASI, WEST JAVA

Description:

Total area: 30.000m²

Total distance/circumference: 1 km

Additional evidence link:

<https://www.google.co.id/maps/place/Universitas+Esa+Unggul+Bekasi+Harapan+Indah/@-6.1590165,106.9701401,932m/data=!3m2!1e3!4b1!4m5!3m4!1s0x2e698b4f86ba93ef:0xcf58e590de21713a!8m2!3d-6.1590165!4d106.9723288?hl=id>



UNIVERSITAS ESA UNGGUL – TANGERANG, WEST JAVA

Description:

Total area: 15.620m²

Total distance/circumference: 0,9 km

Additional evidence link:

<https://www.google.com/maps/place/6%C2%B016'23.5%22S+106%C2%B031'35.0%22E/@-6.2731863,106.5252907,468m/data=!3m2!1e3!4b1!4m13!1m6!3m5!1s0x2e420768746c45fb:0x192fcb02ae7a563f!2sUniversitas+Esa+Unggul+Citra+Raya+Kampus+A!8m2!3d-6.249833!4d106.5224099!3m5!1s0x0:0x0!7e2!8m2!3d-6.273189!4d106.5263849>

Total Campus Building Area

Kampus Kebon Jeruk - Jakarta



Description:

The total area of the campus building in Esa Unggul Kebon Jeruk - Jakarta is 19,603 m²

Esa Unggul University (UEU) was established in 1993 under the auspices of the Kemala Education Foundation educating the nation is a leading Private University and becomes one of the best Private Universities in Indonesia that has VISI, namely being a world-class college based on intellect, creativity and entrepreneurship that excels in the quality of management (process) and results (output) of Tri Dharma Higher Education activities. And have a MISSION: Organizing quality and relevant education, Creating a conducive academic atmosphere, Creating leaders of character and high competitiveness. In the last decade, UEU has experienced a very rapid development, becoming one of the leading Private Universities (PTS) in Jakarta.

Kampus Harapan Indah - Bekasi



Description:

The total building area of the Esa Unggul Bekasi - West Java campus is 11,000m²



Description:

The total building area of the Esa Unggul Tangerang - West Java campus is 15,363m²

Building name	Total Area
Building Campus Jakarta	19603 m ²
Building Campus Tangerang	15363 m ²
Building Campus Bekasi	11000 m ²
Total	45966 m²

Additional evidence link: <https://www.esaunggul.ac.id/>

The ratio of open space to total area



Description:

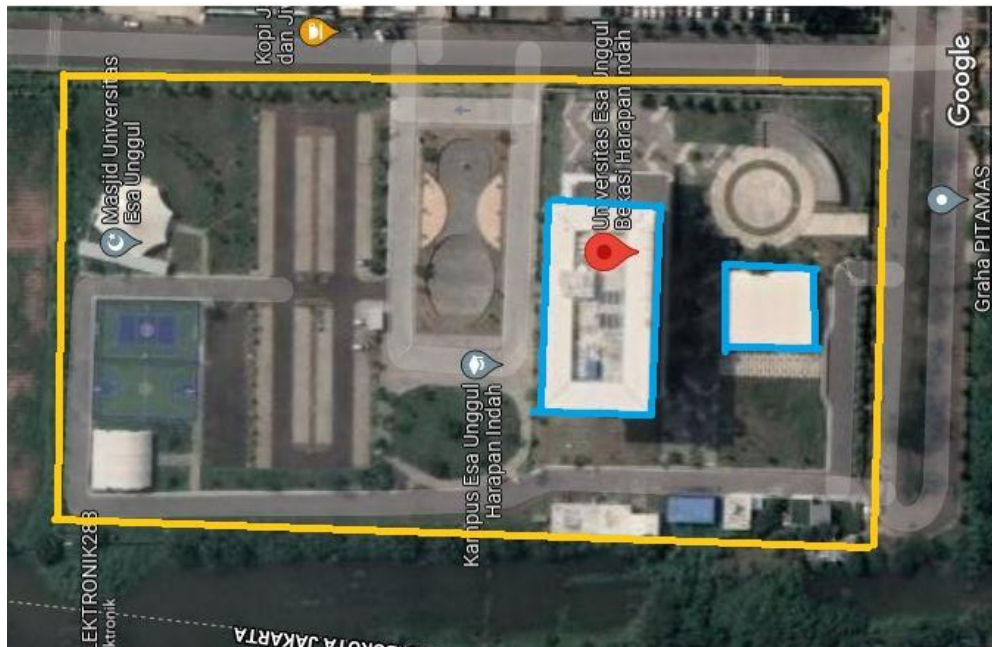
Esa Unggul Kebon Jeruk Campus has an open area of 25,297.4 m² or 994.9 m

Additional evidence link:

https://earth.google.com/web/search/Esa+Unggul+University,+Jalan+Arjuna+Utara,+RT.1%2fRW.2,+Duri+Kepa,+Kota+Jakarta+Barat,+Daerah+Khusus+Ibukota+Jakarta/@-6.18512587,106.77920522,4.06489243a,479.59584596d,35y,0.00000001h,44.99637532t,-Or/data=Ct8BGrQBEq0BCiUweDJINjImNmZhN2FkMmU1Mzk6MHhmNDYzMWVjYWEzjU2NDE2GRSzcVXvhjAldJeM6_ZsVpAKnJFc2Eg_VW5nZ3VsiFVuaXZlcnNpdHksiEphbGFuEFyanVuYSBvdGFyYSwgUQU2MS9SvY4yLCBEEdXJpIEtlcGEsIEtvdGEgSmFrYXJOYSBCYXJhdCwgRGFbcmFolEtodXN1cyBJYnVrb3RhlEpha2FydGEYAIAbIiYKJkD-yX-KuVAQBEiJlxYtyUMwBm0p4BLvrFVQCH2KD0ee49BwA



Esa Unggul Citra Raya Tangerang Campus has an open area of 14,170 m²
Esa Unggul - Tangerang



ESA UNGGUL - BEKASI

Esa Unggul Harapan Indah Bekasi Campus has an open area of 18,250 m²

Total Area on Campus Covered in Forest Vegetation (meter²)



Covered in Forest Vegetation 80 % (Universitas Esa Unggul, Indonesia)



Esa Unggul – Tangerang (Covered in Forest Vegetation 75%)



**Esa Unggul – Bekasi
Covered in Forest Vegetation 85%**

Description:

Our campus is located in the middle of an urban settlement in West Jakarta with a land area of 40,497 m², there are still 25,297 m² of urban forest. At Citra Raya and Harapan Indah campus we are in the process of developing a green campus, because the campus has just been completed. For tangerang and Bekasi campuses have 70- 75 percent of the land open for future development and are already in the process of implementing landscapes that can make students comfortable in the learning process.

Univ. Esa Unggul	Total Area	Total distance	Covered in forest Vegetation
Campus Kebon Jeruk - Jakarta	40,497m ²	1.2km	34,297m ²
Campus Citra Raya – Tangerang	15,620m ²	0.9km	12,874m ²
Campus HI - Bekasi	30,000m ²	1km	25,445m ²

Total area on campus covered in planted vegetation



KEBON JERUK - JAKARTA

Description:

Esa Unggul Kebon Jeruk Campus has an open area embedded with plants and large trees covering an area of 15,177.77m²



HARAPAN INDAH - BEKASI

Description:

Esa Unggul Harapan Indah Bekasi campus is currently only running 8 months of completion of the construction of a new building in an area of 30,000m². The land that is in the stage of plant development area of 11,2300m², including the land on the right and left side of the building.

Additional evidence link:

<https://earth.google.com/web/search/Esa+Unggul+Harapan+Indah+Boulevard+No.+2,+Pusaka+Rakyat,+Kec.+Tarumajaya,+Bekasi,+Jawa+Barat+17214/@-6.15834517,106.97186823,3.74579278a,288.83138602d,35y,143.89599836h,44.99516198t,0r/data=Cs8BGqQBEp0BCiUweDJINjk4YjRmODZiYTkzZWY6MHjZjU4ZTU5MGRIMjE3MTNhGUUp1pnXAohjAITRw9r08vlpAKmJFc2EgVW5nZ3VslEhhcmFwYW4gSW5kYWggQm91bGV2YXJkIE5vLiAyLCBQdXNha2EgUmFreWF0LCBLZWMuIFRhcVtYWpheWEsIEJla2FzaSwgSmF3YSBCYXJhdCAxNzlxNBgCIAEIJgokCW6KxBnwuRjAEe4hOBkfvhjAGYY24T6GvlpAlbSgmAc6vlpAMicKJQojCiExSTBhaV9YY3B1LUhYWG1icmN5cWJCM28zOFQ0SW5UaXU>



CITRA RAYA - TANGERANG

Description:

Esa Unggul Citra Raya Tangerang Campus has just completed the construction of a new building on an area of 15,000m². Land that is in the stage of plant development area of 9,890m², including the land on the right and left side of the building.

Total area on campus for water absorption besides forest and planted vegetation





ESA UNGGUL – BEKASI



ESA UNGGUL - TANGERANG

Description:

Esa Unggul Campus in addition to forests and vegetation areas planted in open areas, we also use conbloc in every parking area or pedestrian area. In areas such as soil, we also install biopori to absorb rainwater. In two campuses we have infiltration and rainwater storage in the form of artificial lakes and ponds with fish as a marker of the quality of the water.

Total **water absorption** area: **24.639,39m2**

Total Area : **86.117 m²**

Percentage area: **28,61%**

Additional evidence link: www.esaunggul.ac.id



Danau UEU.mp4





University budget for sustainability effort (in US Dollars)

	2019	2020	2021	Average
Budget Total	\$11juta	\$14,3juta	\$15juta	\$13,4juta
Sustainability Budget	\$4,8juta	\$7,1juta	\$7,5juta	\$6,4juta
			Percentage	47%

Description:

The budget for sustainability is mostly used, one of which is:

1. Rejuvenation of the waste treatment system
2. Network rejuvenation at the Kebon Jeruk campus
3. Rejuvenation of equipment that supports campus sustainability, such as the use of solar electricity.

- The average percentage university budget for our university is 47%

Percentage of operation and maintenance activities during Covid-19 pandemic

	
	
<p>Building wall cleaning</p>	
<p>operation and maintenance activities</p>	

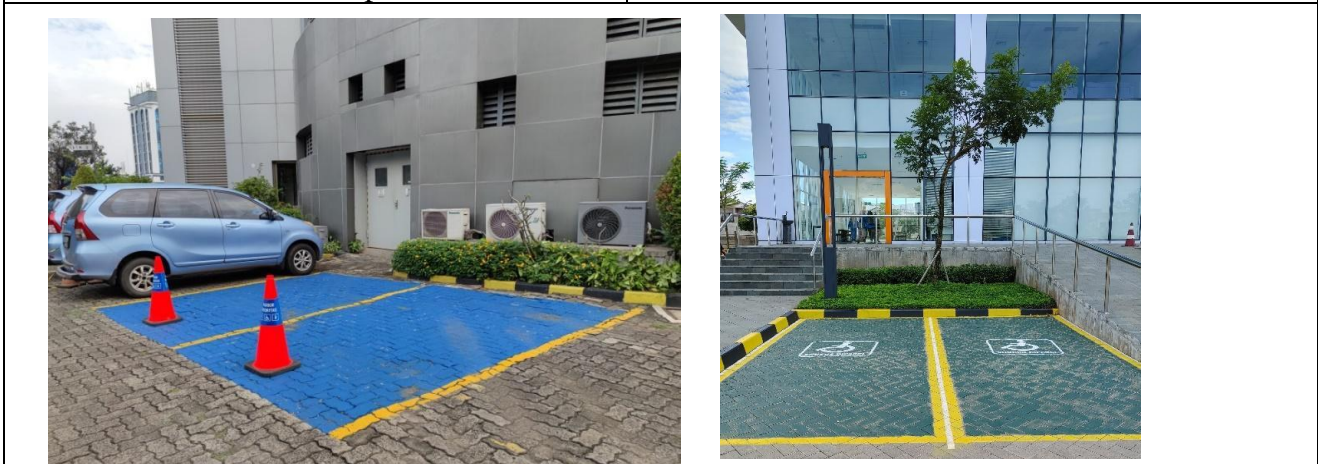
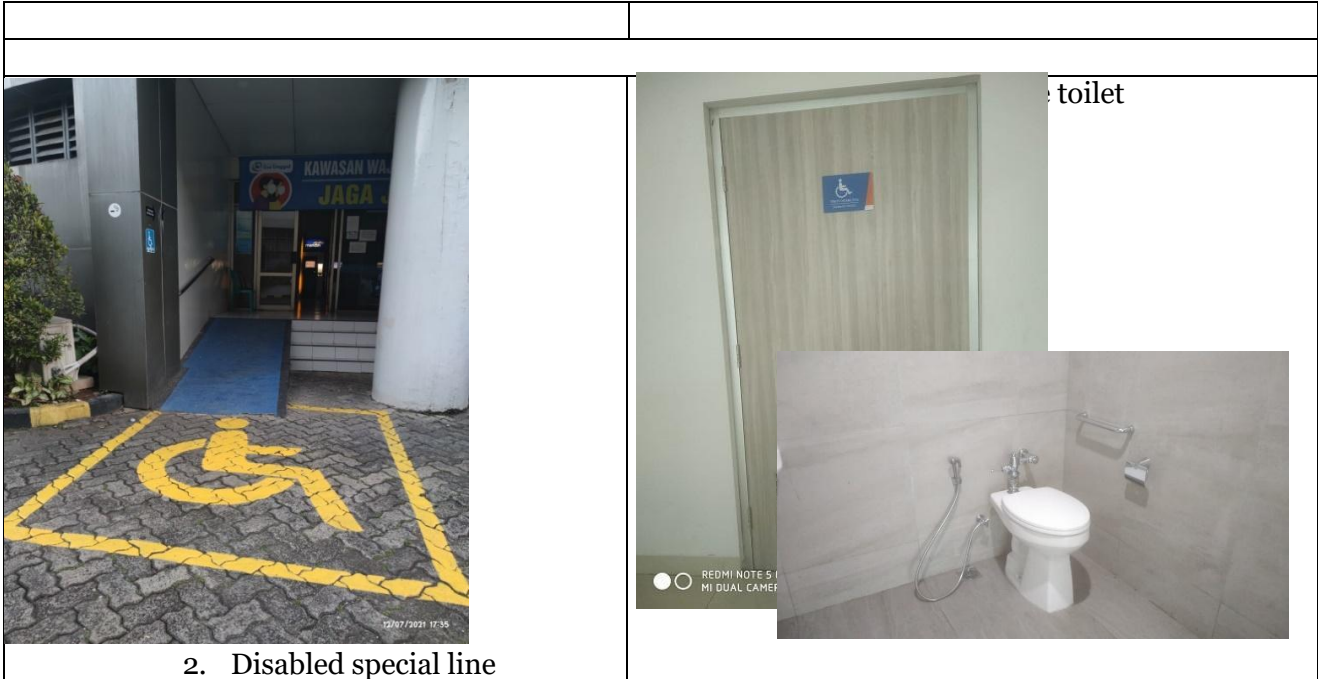
Description:

Regarding activities during normal times, one leading university continues to maintain buildings, machines, and electrical, infrastructure facilities that must have routine maintenance even though there are no lecture activities. Especially the maintenance of generator sets, elevators, cleaning of building walls, provision of hand washing facilities at every building entrance and periodic disinfection in every room used by several educators.

In addition, we also have some renovations - room renovations as well as the creation of new rooms.

1	Total campus buildings area	43.741 m ²
2	Total operated building	17.000 m ²
	Percentage building that operated and maintained	38,86%

Campus facilities for disable, special needs and or maternity care





Description:

Our campus is equipped with facilities for students who lack, including special parking lanes, special lanes to enter the campus building, toilets. Lactation room is a private room for breastfeeding staff can pump breast milk privately, we provide adjacent to Esa Medika clinic room.

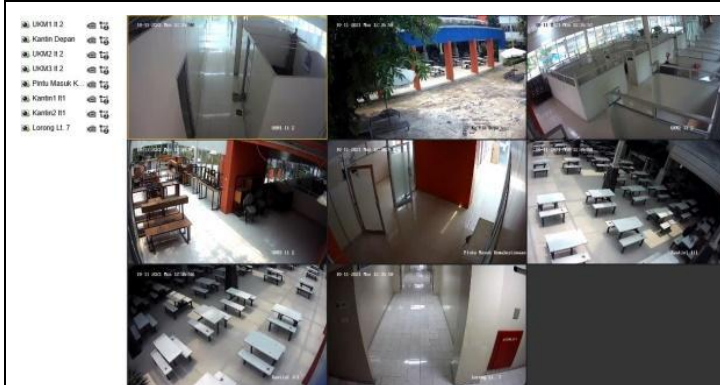
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

- <http://greencampus.esaunggul.ac.id>

Security and safety facilities



1. CCTV indoor & outdoor



2. Emergency training





Description:

For security facilities used by the campus today is CCTV and smart building monitoring to see wasteful electricity usage. Periodically make changes to the refill of light fire extinguishers and conduct K3 training, which is followed by the entire academic community. As well as the screening of safety introduction videos at every time there are activities in the meeting room or hall.

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

- <http://uigreen.metric.esaunggul.ac.id>

Health infrastructure facilities for students, academics and administrative staffs' wellbeing

	
<p>1. physiotherapy</p>	<p>2. Clinic Esa Medika</p>

Description:

On our campus there are facilities for the health of students as well as employees and lecturers. In addition, the campus has a physiotherapy clinic that can be used by students, employees and lecturers. This clinic can also accept patients who come from outside the campus.

Conservation: plant, animal, and wildlife, genetic resources for food and agriculture secured in either medium or long-term conservation facilities



Description:

- Animal cage for student research materials, animals reared are white rats and guinea pigs
- Danau Esa Unggul for fish conservation area
- Planting traditional medicinal tree seeds
- Conservation of rare trees carried out by student activities
- Freshwater fish cultivation that is accommodated in the campus lake

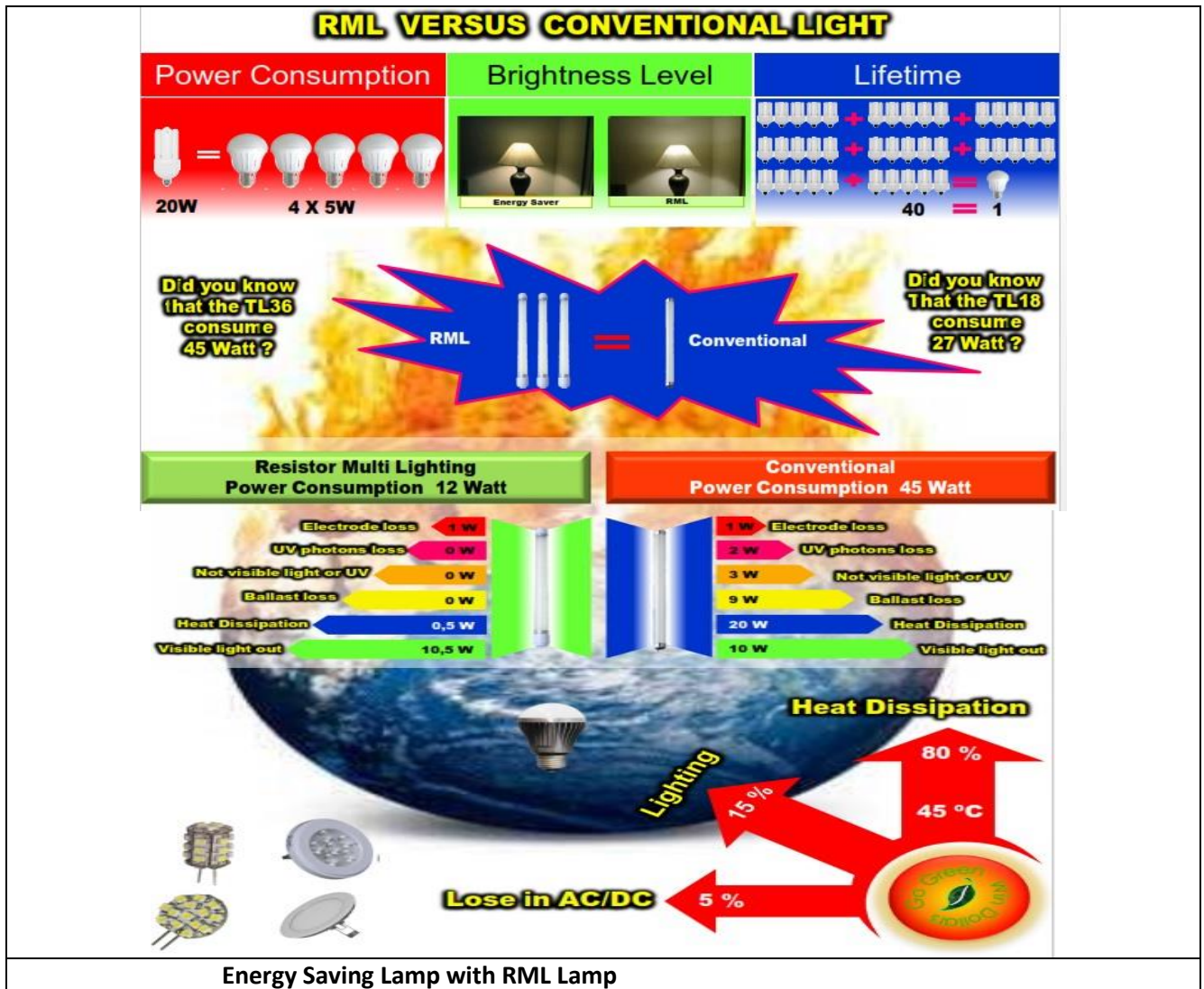
Additional evidence link : <http://uigreen.metric.esaunggul.ac.id>



2

Energy

Energy Efficient Appliances Usage



Energy Saving Lamp with RML Lamp



Conventional lamp Test



LED RML lamp Test

Savings Calculation Table Of Lamp

Universitas Esa Unggul

Jl. Arjuna Utara No. 9 RT 1/RW 2 Duri Kepa, Kb. Jeruk - Jakarta Barat

No.	Type	Jumlah Bola Lampu	LAMPU KONVENSIONAL									LAMPU RML					
			Daya Bola Lampu	Lampu	Ballast	Jumlah daya	Jumlah Daya	LWBP		WBP		Daya Bola Lampu RML	Jumlah Daya RML	LWBP		WBP	
			watt	Set	watt	watt	Kw	Jam	Kw	Jam	Kw	watt	Kw	Jam	Kw	Jam	Kw
1	TL 36 / T8	3601	36	1	11,7	47,7	171,77	10	1.718	4	687,1	12	43,21	10	432,12	4	172,85
2	Bulb	25	0	1	0	0	-	10	-	4	-	0	0,00	10	0,00	4	0,00
3	Down Light / ROUND PANEL	561	18	2	0	36	20,20	10	202	4	80,8	5	2,81	10	28,05	4	11,22
4	PJU	11	250	1	45	295	3,25	10	32	4	13,0	45	0,50	10	4,95	4	1,98
5	Lampu Sorot	1	0	1	45	45	0,05	10	0	4	0,2	0	0,00	10	0,00	4	0,00
Jumlah		4.199	Total Konsumsi Listirk Lampu Konvensional (kw						1.953		781,0	Total Konsumsi Listirk Lampu RML (kw)			465,12		186,05

Konsumsi Listrik untuk Lampu Konvensional setiap Bulan

Biaya Pemakaian per Bulan (LWBP)	TDL	Biaya LWBP	955,50Rp/kwh	48.506.876,69	Rp/Bulan
Beban Puncak (WBP)	TDL	Biaya WBP	1.433,28Rp/kwh	29.104.735	Rp/Bulan
Pajak 3 % (PPN , Pph, Pajak Penerangan)	Rp	2.328.348		-	Rp/Bulan
Perkiraan Biaya Maintenance 0,5 %				419.900	Rp/Bulan
Total Biaya Pemakaian per Bulan				78.031.512	Rp/Bulan

Konsumsi Listrik untuk Lampu RML setiap Bulan

Biaya Pemakaian per Bulan (LWBP)	TDL	Biaya LWBP	955,50Rp/kwh	11.554.976	Rp/Bulan
Beban Puncak (WBP)	TDL	Biaya WBP	1.433,28Rp/kwh	6.933.131	Rp/Bulan
Pajak 3 % (PPN , Pph, Pajak Penerangan)	Rp	554.643		0	Rp/Bulan
Total Biaya Pemakaian per Bulan				18.488.107	Rp/Bulan

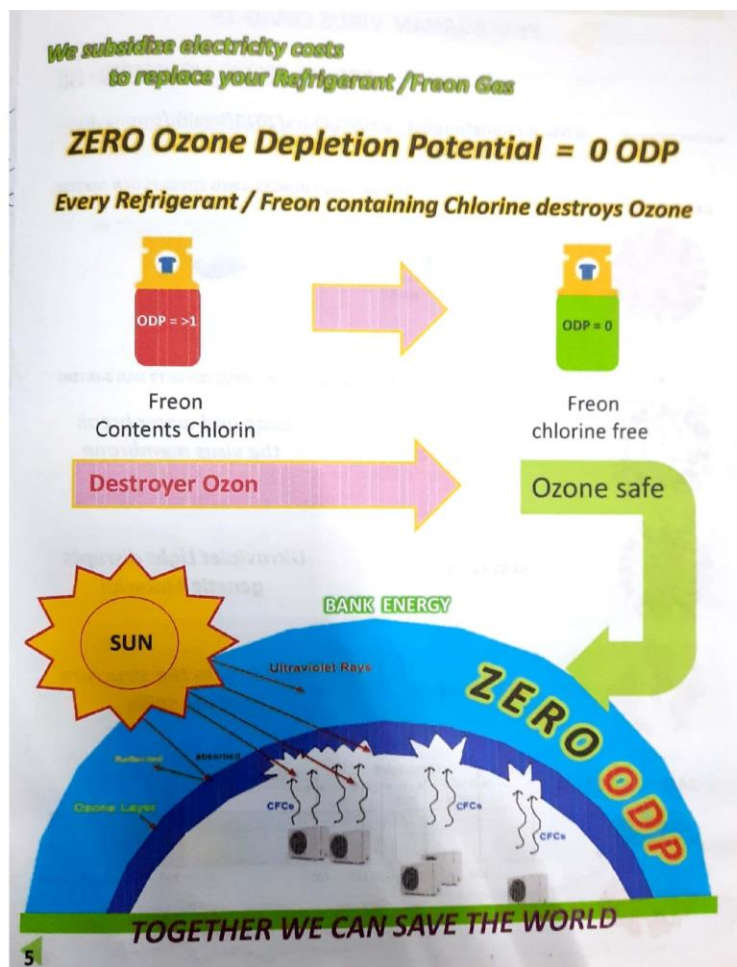
Perhitungan Penghematan Biaya Listrik

Penghematan Listrik dari pemakaian Lampu				59.543.405	Rp/Bulan
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Energy efficient with RML Lamp can reduce 75% of KWH usage. LED Lighting continues application for each room and facility with light detection.

Esa Unggul University collaborates with BANK ENERGY in terms of using energy-efficient lamps and is easy to implement at universities, Bank Energy has LED lamp technology that is very energy efficient, easy to use and has a brighter light than conventional lamps. From the table above, it can be reflected that the use of energy-saving lamps can reduce the burden of electricity consumption.

Freon is used for air conditioning on campus



Use zero ozone Deletion potential

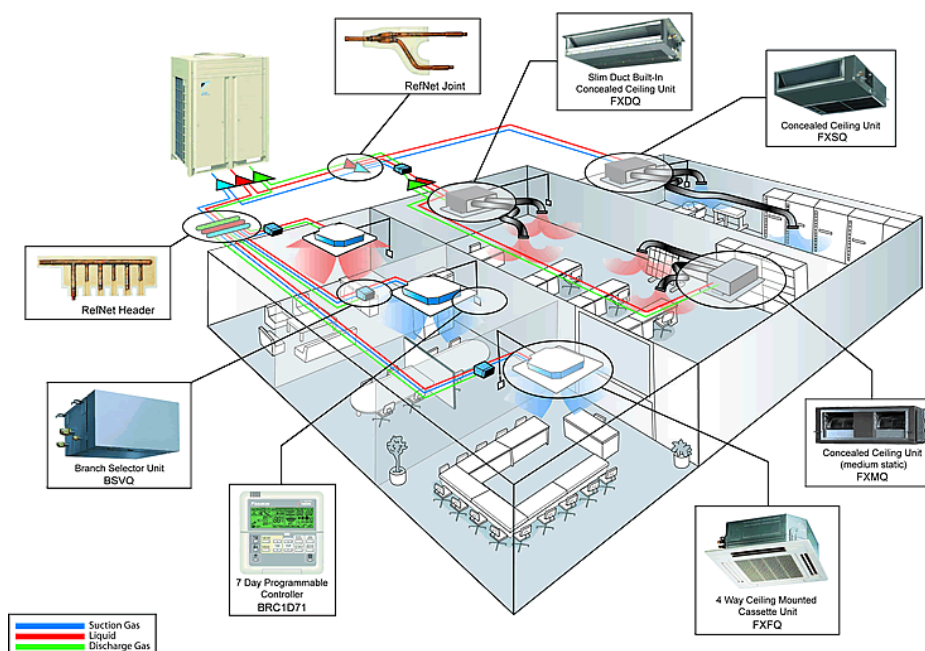
Esa Unggul also collaborates with energy banks in the use of Freon for air conditioning that is very environmentally friendly and does not damage the earth's ozone layer, this has been implemented at Esa Unggul University

Esa Unggul University has used air conditioning technology that is environmentally friendly and electricity efficient, namely using Air Conditioner Variable Refrigerant Volume (VRV), AC VRV uses inverter technology on Variable Refrigerant Volume (VRV) type air conditioners commonly used in multi-storey buildings. VRV is an AC capacity-setting technology that has the ability to prevent excessive cooling, thus saving electricity.

VRV III is designed for large rooms in multi-storey buildings, with several features including:

1. Has a large capacity for large rooms anyway, where:

- Outdoor units with capacities up to 54 PK / Two types of combination outdoor units
 - Range of indoor units / connected up to 64 indoor units
 - Length pipe length / Difference level
 - Height of external static pressure
2. Installation and maintenance of ac is quite easy.





This air conditioner that has used very sophisticated inverter technology can detect human body temperature in the room and adjust the room temperature needed automatically, and the control and monitoring system has been equipped with a Building management system that can detect air conditioners on / off and can adjust indoor temperatures on one screen.

5 Aug 2020 17:37:38

Room	Enable	Status	Trip Alarm	Room Temp	Schedule	Selector Switch
IU - R. DIR.OP	ON	On	Normal	22.70 °C	Off	15
IU - R. DIR.OP1	OFF	Off	Normal	23.30 °C	Off	15
IU - R. DIR.OP2	OFF	Off	Normal	24.90 °C	Off	15
IU - R. MEETING	OFF	Off	Normal	29.60 °C	Off	15
IU - R. ADMIN1	ON	On	Normal	24.50 °C	Off	15
IU - R. ADMIN2	ON	On	Normal	24.50 °C	Off	15
IU - R. ADMIN4	OFF	Off	Normal	29.00 °C	Off	15
IU - R. ADMIN3	OFF	Off	Normal	29.70 °C	Off	15
IU - KORIDOR1	OFF	Off	Normal	25.10 °C	Off	15
IU - KORIDOR2	OFF	Off	Normal	24.00 °C	Off	15
IU - KORIDOR3	ON	On	Normal	24.60 °C	Off	15
IU - LOBBY1	OFF	Off	Normal	27.80 °C	Off	15
IU - LOBBY2	OFF	Off	Normal	27.40 °C	Off	15
IU - KORIDOR4	ON	On	Normal	25.20 °C	Off	15
IU - KORIDOR5	ON	On	Normal	25.70 °C	Off	15
IU - R. SARPRAS	ON	On	Normal	23.40 °C	Off	15
IU - R. SERVER	ON	On	Normal	22.30 °C	Off	15
IU - R. RETAIL	OFF	Off	Normal	30.10 °C	Off	15
IU - R. PENDAFARAN	ON	On	Normal	24.90 °C	Off	15
IU - HUB	OFF	Off	Normal	27.40 °C	Off	15

Here is a display of the ac control screen and lights in the building

Smart Building Implementation

*Min. at least five requirements for each building

No.	Name	Place	automation		safety				energy		water		Indoor environment				lighting				Building Area (m ²)		
			B1	B2	S1	S2	S3	S4	E1	E2	A1	A2	I1	I2	I3	I4	L1	L2	L3	L4			
	Universitas Esa Unggul Building A	Jakarta, Indonesia	x			x				x		x							x				13600
	Universitas Esa Unggul Building B	Jakarta, Indonesia	x			x				x									x				1548
	Universitas Esa Unggul Building C	Jakarta, Indonesia	x			x				x		x						x	x				4455
	Universitas Esa Unggul Building A	Tangerang, Indonesia	x		x					x		x			x				x				15.363
	Universitas Esa Unggul Building A	Bekasi, Indonesia		x			x			x		x		x		x			x	x			11.000
Total																							

————— Please compile one row for each building (or homogeneous part of it) by ticking with a "X" for each requirement —————

Smart building implementation



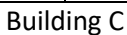
$$\frac{\text{total smart building area}}{\text{total building area}} \times 100\%$$

$$\frac{44.418}{46.239} \times 100\% = 96\%$$

Note:

Additional evidence link: www.esaunggul.ac.id

Universitas Esa Unggul – Kebon Jeruk – Jakarta

Building A	Building B
	
	



Universitas Esa Unggul – Cikupa - Tangerang

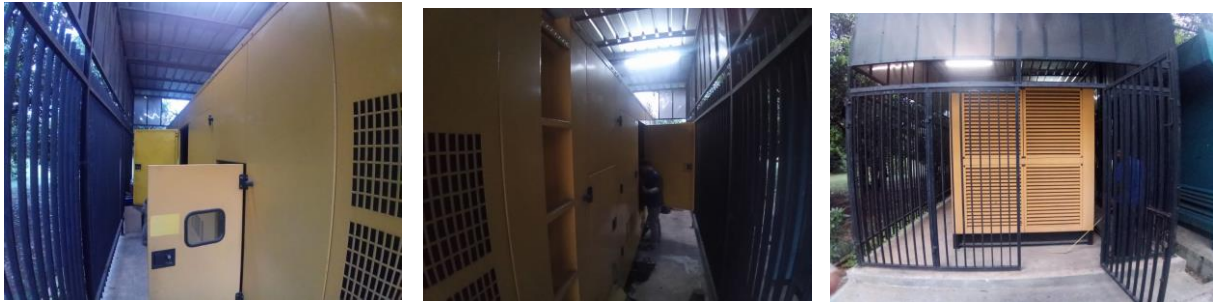


Universitas Esa Unggul - Bekasi



Esa Unggul University already has 3 campus buildings that have been built with the concept of green building and supported by a Smart building System, where the green building concept of Esa Unggul University thinks and implements starting from lighting sourced from the sun can shine all rooms in the building. As well as the support of a smart building system that can regulate, monitor the use of energy in the building ranging from lights, air conditioning, water, and building security systems in a state of fire, this is a tangible form of esa university excelling in saving energy and protecting the Earth.

Renewable Energy Sources in Campus



Biodiesel Generator and Power Integration Unit (Esa Unggul University - Jakarta)
 Esa Unggul University – Kebon Jeruk, Jakarta already has a renewable energy source namely BIO DIESEL with building capacity A 1000Kwh and Building C 720Kwh

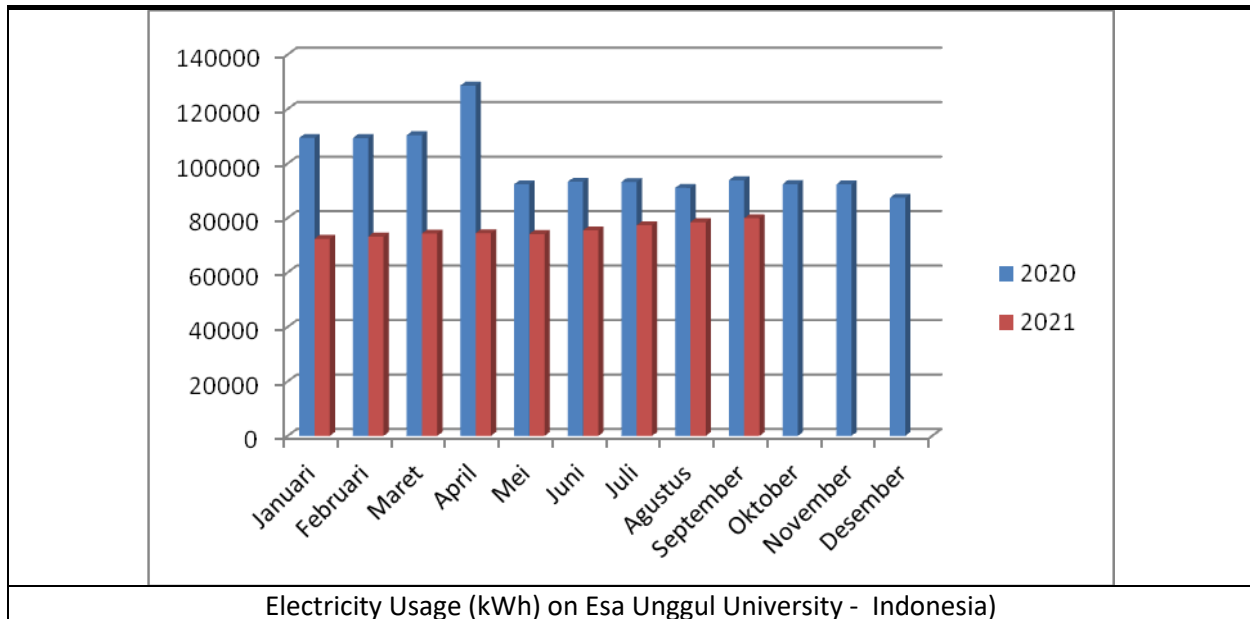


Biodiesel Generator and Power Integration Unit (Esa Unggul University - Bekasi)
 Esa Unggul University – Bekasi already has a renewable energy source, namely BIO DIESEL with a capacity of 520Kwh that reaches the entire building area as well as the main street lights.



Biodiesel Generator and Power Integration Unit (Esa Unggul University – Cikupa - Tangerang)
 Esa Unggul University – Cikupa- Tangerang already has a renewable energy source, namely BIO DIESEL with a capacity of 640Kwh that reaches the entire building area as well as the main street lights.

Electricity Usage per Year (in Kilowatt hour)



Electricity Usage (kWh) on Esa Unggul University - Indonesia

Description:

The average electricity usage for the Esa Unggul Kebon Jeruk University Campus - Jakarta in 2019 was 136,294 kWh. in 2020 there was a decrease in the use of electrical energy due to the Covid-19 Pandemic making campus activities eliminated, in 2020 the average electricity use was 70,015Kwh. in 2021 there was a slight increase in electricity consumption due to several campus activities held on a limited basis by complying with health protocols, electricity use in 2021 to running on average 75,331kwh.

ratio of renewable energy production divided by total energy usage per year



Biodiesel Combined Cooling Heating and Power Integration Unit (Universitas Esa Unggul – Jakarta, Bekasi, Tangerang)

Description:

(Please describe the renewable energy sources on your campus. The following is an example of the description. You can describe more related items if needed.)

No	Renewable Energy	Production (in kWh)
1	Biodiesel	2880

2880 / 75331 (Electricity usage) = 26.5 %

Esa Unggul University also has a renewable energy source that is fueled by bio-diesel in the form of a generator, the generator set owned by esa unggul university can cover the entire campus area. This generator is not only used during emergencies, but also used occasionally to support campus activities while maintaining and monitoring the power plant generators in this generator, and can reduce the use of electricity sourced from PLN

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

SAMPL

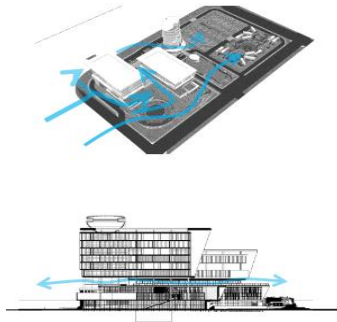
Elements of Green Building Implementation as Reflected in All Construction and Renovation Policies



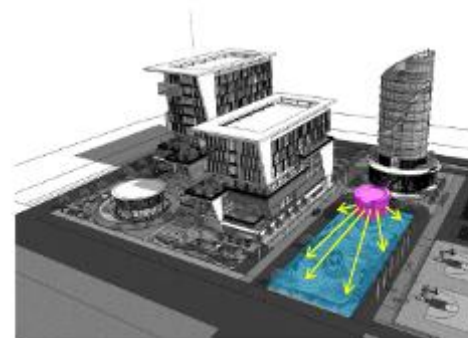
Concept.
Water Efficiency as green development



Concept.
Indoor Air Quality



Cross ventilation adalah metode pendinginan alami. Sistem ini mengandalkan angin untuk memaksa udara luar yang dingin ke dalam gedung melalui saluran masuk (seperti kisi-kisi dinding atau jendela yang terbuka) sementara saluran keluar memaksa udara bagian dalam yang hangat ke luar (bukannya jendela yang lebih tinggi).



Retention Pond selain berfungsi sebagai penampung air hujan, kolam ini juga sebagai pengatur thermal area site. Pada ujung kolam terdapat ruang rapat dengan tujuan meningkatkan kesan rileks dan fresh pada pengguna.

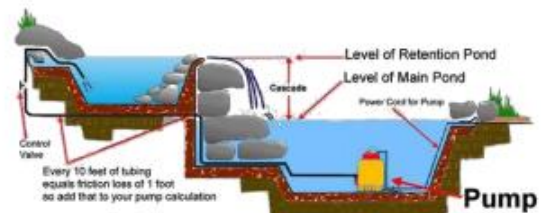
Universitas Esa Unggul
Green Campus



Concept.
Water Efficiency as green development



Retention Pond adalah kolam yang dirancang dengan kapasitas penyimpanan tambahan untuk meredam limpasan air selama hujan dan untuk penyimpanan air hujan sebagai cadangan air. Serta membantu untuk mengurangi kenaikan suhu udara mikro di sekitar bangunan.



Green Building Implementation – Universitas Esa Unggul - Bekasi



Universitas Esa Unggul - Bekasi



Universitas Esa Unggul - Bekasi



Universitas Esa Unggul - Bekasi

Description:

(Please describe the elements of green building implementation on your campus. The following is an example of the description. You can describe more related items if needed.)

1. Esa Unggul University has implemented Green Bulding where the university building is designed with the concept of solar lighting but still comfortable while in the building, with the concept of 75% of the building highlighted by the morning and evening sun, this concept can save the use of electricity for lighting.
2. In addition to superior esa university lighting also utilizes rainwater channeled through the rooftop media of the building channeled to the source of water catchment and reused to water plants and grass around the campus area
3. Esa Unggul also has a Biotank sewage treatment plant (STP) system to overcome domestic waste processed domestic waste that has been tested safely if exposed to skin is used to water plants.Esa unggul has a rainfle pond that can hold rainwater up to 456000s of water, rainwater is accommodated in a rain pond and filtered to use artificial biovortex so that rainwater becomes cleaner and safer for fish and aquatic plants.

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

Greenhouse gas emission reduction program



1. Green house (Universitas Esa Unggul)



2.



3. Fruit seedlings and planting of medicinal plants

Description:

With the greenhouse and plant planting on campus can absorb carbon dioxide (CO₂) levels, increase oxygen, lower the temperature with shade and coolness of plants, become a water catchment area, and reduce noise.

Please Provide The Total Carbon Footprint (CO₂ emission in the last 12 months, in metric tons)

Option 2: Recommended by UI GreenMetric

CO₂ (electricity)

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

$$= \frac{1,633,286 \text{ kWh}}{1000} \times 0,84$$

$$= 1,371.96 \text{ metric tons}$$

CO₂ (bus)

$$= \frac{\text{number of shuttle bus in your university} \times \text{total trips for shuttle bus service each day} \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{15 \times 150 \times 5 \times 240}{100} \times 0,01$$

$$= 270 \text{ metric tons}$$

CO₂ (cars)

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

$$= \frac{2,000 \times 2 \times 5 \times 240}{100} \times 0,02$$

$$= 960 \text{ metric tons}$$

CO₂ (motorcycle)

$$= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01$$

$$= \frac{4,000 \times 2 \times 5 \times 240}{100} \times 0,01$$

$$= 960 \text{ metric tons}$$

CO₂ (total)

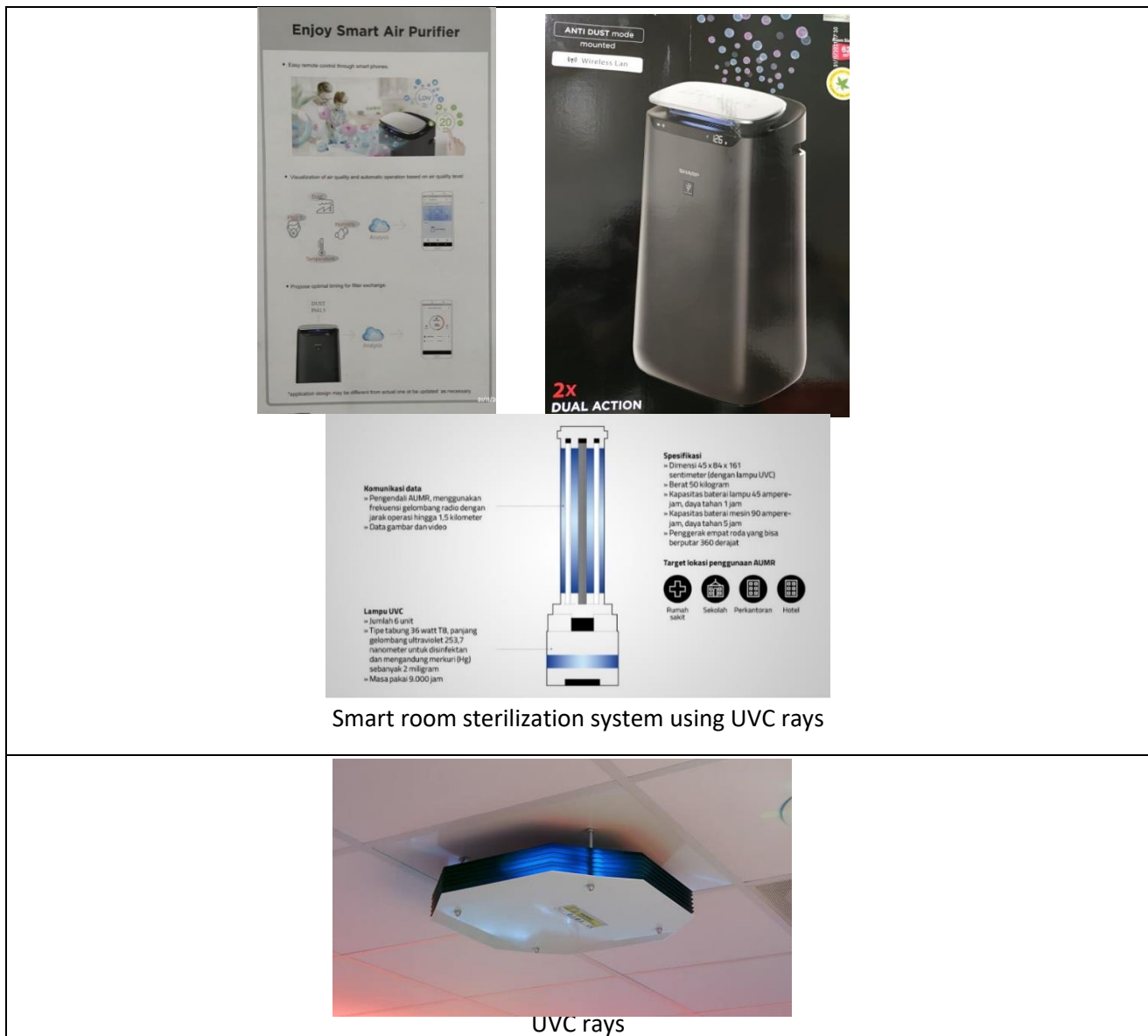
$$= 1,371.96 + 270 + 960 + 960$$

$$= 3,561.96 \text{ metric tons}$$

Carbon footprint in 2019 = 3,561.96 metric tons

From the calculation above, it can be illustrated that esa's commitment to excellence in reducing Co2 emissions in the campus area implemented from several programs such as limiting students to use private vehicles to campus, advising students to use shuttle transportation that has been provided by the campus, advising students to use public transportation or online transportation, with some of these programs Esa Unggul University can contribute to protecting the earth from Co2 emission

Number of innovative program(s) in energy and climate change



Description:

The use of UVC rays and smart air purifiers in every room used in meetings or meetings at small scales, is also used in meeting rooms with a capacity of 50 people. Smart air purifier is to clean the room air from bacteria or viruses that rotate from the air from the air conditioner.

UVC is used to maintain air quality standards despite the dynamics of cooling load and the dynamics of biological pollutants in the room. There are also innovations in room sterilization using UVC rays for biological pollutants attached to the surfaces such as benches, floors, and walls. Irradiating of rooms is carried out automatically every time the room is about to be used or after an activity and can be automated via condition sensors attached to PC-operated web cams.

The irradiation process is carried out at certain time intervals when the room unoccupied. During the process the door is closed and information is displayed to users outside. UVC wavelengths can be remotely regulated so they can be used for multi-organic sterilization of pollutants (biological pollutants).

Impactful university program(s) on climate change



Description:

UEU Biotechnology Lecturer Radisti Ayu Praptiwi was one of the winners in the 2020 MAB Young Scientists Awards held by the United Nations Educational Scientific and Cultural Organization (UNESCO). Radisti said in the event he was successfully selected through his research that took the theme related to climate change entitled "Understanding the Impact Climate Change to Cultural Ecosystem Services in Tropical Marine Biosphere Reserve Taka Bonerate Kepulauan Selayar". "In the selection process conducted by UNESCO, my research competes with a number of studies conducted by scientists from many countries, the process of research work was carried out for 1 year.

Providing education on the dangers of plastic waste to the environment, Esa Unggul University KKN students collaborate with the Ecomart Waste Bank in socializing with children. The Real Work Lecture Group (KKN) of Esa Unggul University students conducted socialization and education in Lengkong Kulon Village for children, Sunday 10 July 2022. We from Esa Unggul University certainly support and encourage us the Indonesian people to realize the SDGs as our shared responsibility, a visit from Bapeda and DKI bank for the appointment of the EU as SDG's center and the launch of an EU waste bank that is appointed and fostered directly by Bapennas

Additional evidence link :

<https://www.esaunggul.ac.id/angkat-tema-perubahan-iklim-karya-dosen-bioteknologi-ueu-terpilih-di-scientists-award-unesco/>


https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.poros.id%2Fberita-utama%2Fpr-1673862426%2Fmahasiswa-kkn-universitas-esa-unggul-gandeng-bank-sampah-ecomart-edukasi-bahaya-limbah-plastik-pada-anak&psig=AOvVaw2hzX5AQw7uzM-w_Gaccs6f&ust=1667216546403000&source=images&cd=vfe&ved=0CA4QjhxqFwoTCPDPqOjvh_sCFQAAAAAdAAAAABAD


<https://www.esaunggul.ac.id/wujudkan-sdgs-di-lingkungan-perguruan-tinggi-ueu-bekerjasama-dengan-bank-dki-dan-bapennas/>

3

Waste

Recycling Program for University Waste




[BERANDA](#) [TENTANG](#) [PROGRAM](#) [BERITA & KEGIATAN](#) [GALERI](#) [GREENMETRIC UI](#) 



Universitas Esa Unggul

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- ✓ Satisfaction Value For Nature Solution
- ✓ Comfortable Learning
- ✓ Eco System
- ✓ Recycle



POSTS

- Edukasi >
- Transportasi >
- Air >
- Limbah >
- Energi & Perubahan Iklim >



The dissemination of campus waste management was also echoed by Esa Unggul University through learning activities. Starting in 2022, there will be the development of a learning curriculum that includes the sustainability of life. Environmental sustainability learning is applied to courses such as industrial design, public health, visual communication design, and general courses. Learning related to environmental sustainability is packaged by the university by containing aspects of empowering waste so that it can be reused for the needs of daily life, such as fine art designs, work tools, household appliances, and other products. Esa Unggul University also organizes seminars and training on the management of inorganic waste. The seminar invited competent experts in the field of waste management. It is hoped that it can provide knowledge so that the process of transforming Esa Unggul University into an environmental friendly campus is carried out immediately and perfectly. This seminar shows the commitment of Esa Unggul University in waste management.

3. Training of waste management officers

Esa Unggul University has a training program for officers involved in waste management consisting of janitors, park staff, public employees, and students regarding waste management in the campus environment. The training program is carried out at least once a year with the aim of increasing the knowledge and skills of human resources at Esa Unggul University in managing waste so that it has use value. The training was held related to the implementation of the latest methods in managing the waste produced by the campus community, such as management of compost fertilizer management, ecoenzyme management, plastic waste management, and infectious waste management/B3 management.

4. Provision categorized trash can and temporary shelters

Esa Unggul University support the campus community by providing categorized trash can. It is part of an effort to shape the behavior of the people of Esa Unggul University so that they are accustomed to managing waste, starting from how to dispose of according to the category of garbage disposal.

5. University waste bank program

Esa Superior University has a waste bank as an effort to accommodate the disposal of non-organic waste that can be used as artistic value or economic value. The waste bank is managed by employees and students with the aim of managing non-organic waste so that it can be utilized as optimally as possible to improve the welfare of the people of Esa Unggul University.

6. Program to utilize waste into useful products

Esa Unggul University utilize domestic waste in the form of organic, non-organic, and toxic/B3 waste by recycling it to produce products that are efficient and have economic value. Esa Unggul University excels through a health laboratory, utilizing the remaining bacterial culture media practicum materials which are recycled again with the bacterial culture method so that the media and bacteria are stored for a long period of time to be reused in practicum learning activities and research, which saves the operational costs of purchasing materials.

Utilization of waste into efficient products is also continuously developed by the Esa Unggul University Green Campus Task Force team. Organic waste from the canteen in the form of vegetable and fruit waste is reused to make eco-enzyme liquid. The eco-enzyme liquid produced from vegetable and fruit waste is used for cleaning laboratory equipment, cleaning floors, and cleaning areas of public facilities. In addition, the eco-enzyme products produced are also used as materials for research activities to develop quality and effective eco-enzyme products in the manufacturing process.

In addition to the above efforts, Esa Unggul University also empowers the community around the campus environment in waste collection activities that still have economic value. There is a waste sorting officer as a garbage collector to sort domestic waste to then be sorted and collected for later sale to used goods collectors. From this activity, the waste sorting officer made payments for the purchased waste to PT Indonusa Esa Unggul as the manager of the campus area.

Throughout 2022, ESA Unggul University produces an average of 220 kg of organic and inorganic waste of domestic waste and 24 kg of toxic waste per day. Esa Unggul University's efforts to help reduce the amount of waste disposed of in landfills (TPA) have an impact in the form of reducing the amount of waste transported

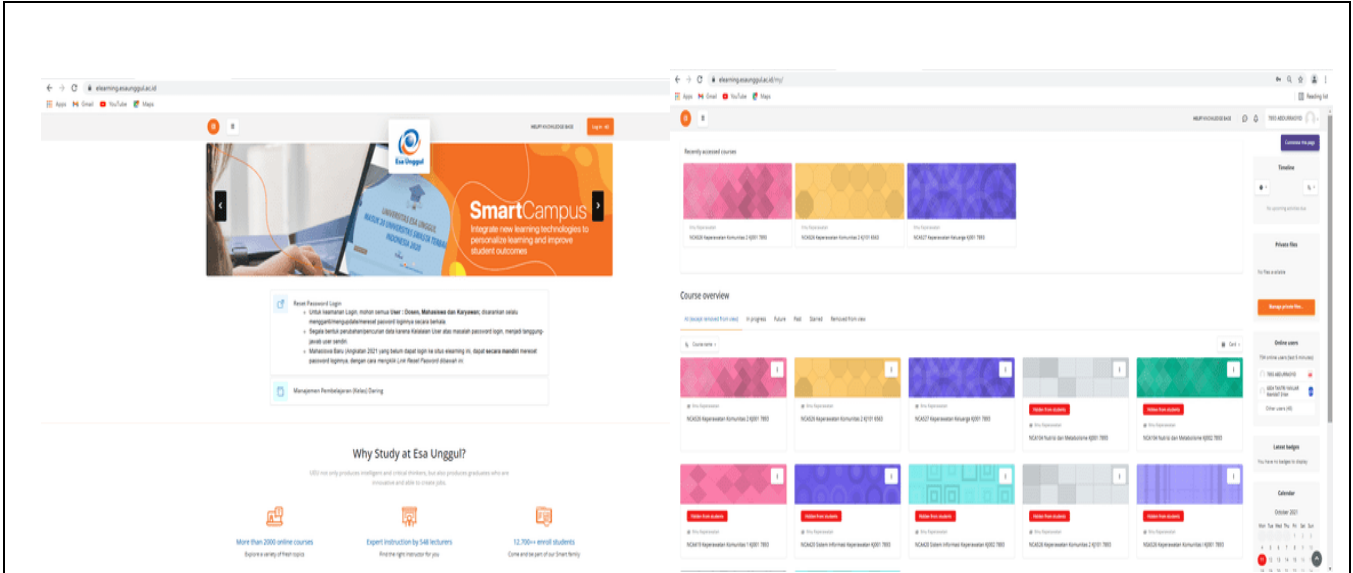
by cleaners by 10% to 15% and helping to reduce operational costs in transporting campus waste and operational costs campus facility maintenance.

Additional evidence link:

1. <https://greencampus.esaunggul.ac.id/berita/>
2. <https://www.esaunggul.ac.id/komitmen-universitas-esa-unggul-dalam-mewujudkan-kampus-hijau-melalui-program-ui-greenmetric-2/>
3. <https://www.youtube.com/watch?v=WQ7D187EF7k>
4. <https://www.esaunggul.ac.id/universitas-esa-unggul-dan-klhk-laksanakan-gerakan-penanaman-pohon/>
5. <https://www.esaunggul.ac.id/tidak-berhenti-berkomitmen-wujudkan-kampus-hijau-universitas-esa-unggul-canangkan-gerakan-esa-unggul-menanam-pohon/>
6. <https://www.esaunggul.ac.id/lakukan-penelitian-polusi-plastik-di-lingkungan-kelautan-dosen-ueu-berkolaborasi-dengan-scientist-internasional/>
7. <https://www.esaunggul.ac.id/pamerkan-produk-mahasiswa-desain-interior-ueu-ikuti-pameran-indobuildtech-2021/>
8. <https://www.esaunggul.ac.id/ipteks-bagi-masyarakat-kelompok-usaha-handycraft-kecamatan-ciputat-dan-pamulang-kotamadya-tangerang-selatan/>
9. <https://www.esaunggul.ac.id/diprakarsai-ikatan-wanita-pengusaha-indonesia-universitas-esa-unggul-bekerja-sama-dengan-kementerian-lingkungan-hidup-dan-kehutanan-melaksanakan-gerakan-penanaman-pohon-dengan-tema-green-campus-for-a/>
10. <https://www.esaunggul.ac.id/manfaatkan-sampah-karet-menjadi-produk-kreatif-tim-dosen-fdik-ueu-gelar-pkm-di-sds-dasana-indah-tangerang/>
11. <https://www.esaunggul.ac.id/wujudkan-sdgs-di-lingkungan-perguruan-tinggi-ueu-bekerjasama-dengan-bank-dki-dan-bapennas/>

Program to Reduce the Use of Paper and Plastic on Campus

Esa Unggul University has 8 programs to minimize the amount of domestic waste in the form of used paper and plastic in the campus environment, including:



Picture 1. Online Learning



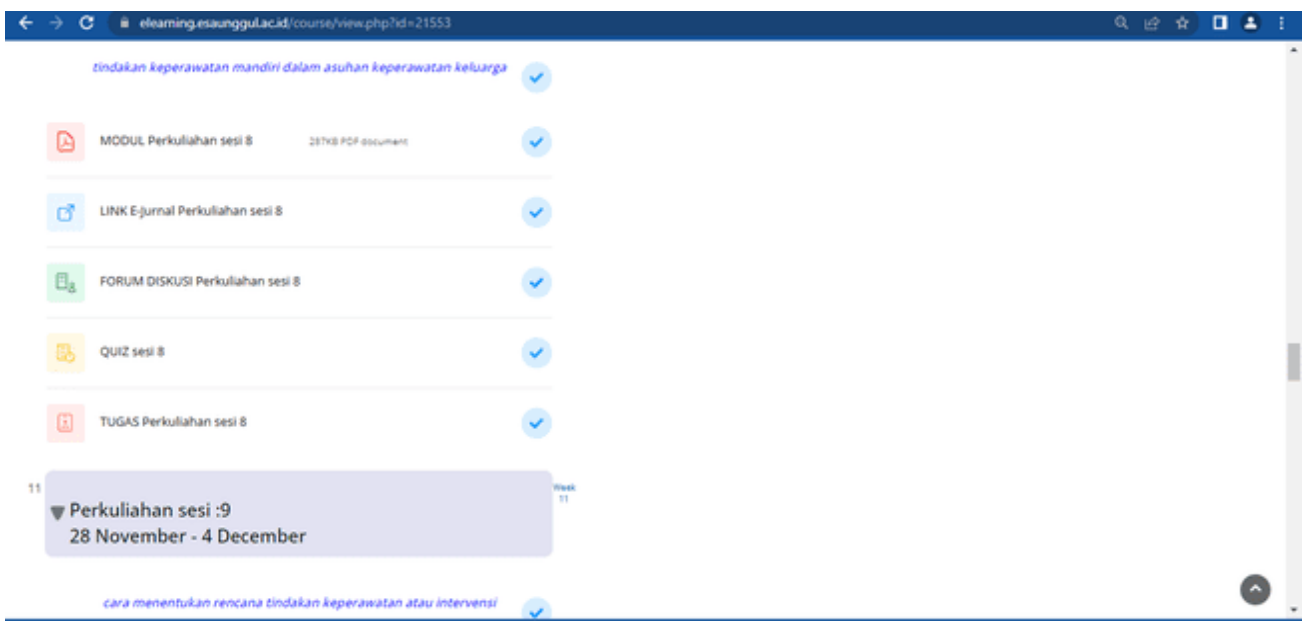
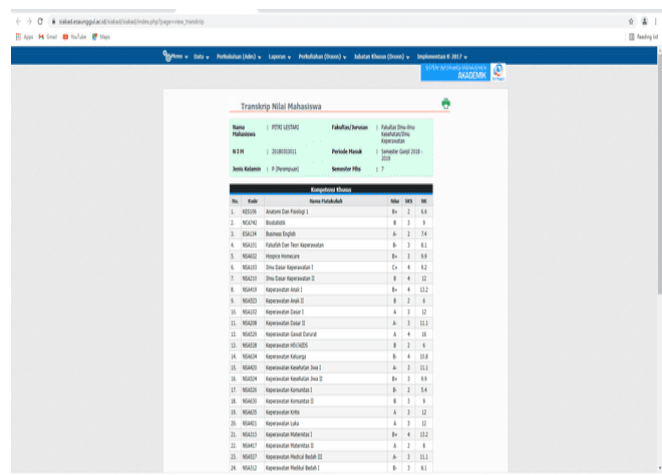
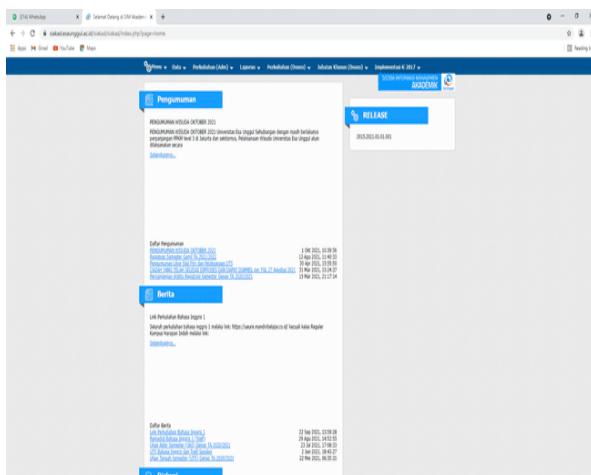
Picture 2. Tumbler Usage at Esa Unggul University



Picture 3. Eating and drinking utensils in the work unit ruang



Picture 4. General dispenser facilities



Picture 5. Digital student administration system



Picture 6. Use of shopping-friendly bags in the canteen

Picture 7. Ban on plastic straws

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**Registration Is Open
Until 30 October 2022**

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Sunday, 06 November 2022

Universitas Esa Unggul Citra Raya

@runtorecycle_ueu runtorecycle@gmail.com

Esa Unggul STP BANK DKI

Picture 8. Environmental Friendly Student Activities

Description:**1. Online Learning**

Learning Process at the Esa Unggul University campus are using a management information system in the form of elearning.esaunggul.ac.id, which has been developed since 2006. The use of information systems is carried out as a transformation of learning in the digital era and aims to minimize the use of paper in ongoing learning activities. All learning documents, which were previously paper-based in the form of modules, assignment documents, exam question documents, and student assignment and exam answer sheets, are now 100% available in digital form.

2. Use of tumblers for students and employees

Esa Unggul University consistently campaigns for the use of a tumbler or personal drinking water bottle as an effort to reduce the use of single-use plastic bottles. The tumbler usage program is addressed to the entire community of Esa Unggul University with the hope of a healthy lifestyle in preserving the environment by reducing the amount of plastic waste produced by the campus. Every meeting or activity in the field no longer uses plastic bottled mineral water, but the entire community uses private drinking water bottles to refill water and Esa Unggul University cooperates with the water company Pristin to provide drinking water so that it can be consumed by the campus community.

3. Provision of eating and drinking utensils in the workspace

Esa Unggul University has a program for providing cutlery, drinking utensils, and cooking utensils in the workspace. This program is intended to improve the comfort and health of employees in activities while working and also as an effort to reduce the use of plastic waste and styrofoam. Eating and drinking utensils provided by Esa Unggul University are placed in each work unit room according to the number of personnel in each unit.

4. Provision of general dispenser facilities

Esa Unggul University has a program for providing public dispenser facilities that can be accessed by the entire campus community as an effort to implement Ministerial Instruction No.1/M/INS/2019 concerning the prohibition of the use of drinking water packaging made from single-use plastics and/or plastic bags within the Ministry of Research, Technology, and Higher Education. Provision of drinking water practically using dispenser facilities placed in strategic locations making it easier for campus communities to access water refill for consumption. The provision of water for each dispenser is facilitated by the drinking water company Pristin by using refillable gallon packaging, so that these efforts are expected to form daily habitual behavior in minimizing the use of single-use plastic bottles.

5. Digital student administration system

Esa Unggul Universitas facilitates students in providing convenience to manage college administration based on the use of the siakad.esaunggul.ac.id digital administration system. All forms of student learning administration in the form of payment bills, proof of payment, student transcripts, correspondence needs, guidance documentation, recapitulation of student lecture progress, and other administrative needs that were originally based on paper use are now available in one access. The use of a digital administration system in the form of Siakad, in addition to providing convenience for students to access various services needed, it also helps reduce paper usage.

6. Use of eco-friendly shopping bags in the canteen

Esa Unggul University through the general bureau as the manager of the campus environment, instructs all elements in the campus canteen to use packaging products that are easily biodegradable and easy to recycle. The Esa Unggul University Canteen uses "eco-friendly shopping bags" in packaging the food it sells as an effort to reduce the plastic waste produced in the canteen environment. In addition, currently 70% of canteens have started to switch from using styrofoam packaging to food packaging made of paper, with the aim that the paper waste can be sold to collectors from the community and from Bank DKI.

7. Don't use plastic straws

Esa Unggul University bans the use of plastic straws in activities in the university canteen. Starting in 2019, the canteen at Esa Unggul university no longer uses plastic straws and this helps in reducing plastic waste generated in the canteen environment. If there is still plastic straw waste produced by the campus

community, then the waste is collected by garbage collectors / wholesalers for sale, besides plastic straw waste is sometimes recycled by students, especially design students to make various works of art in assignment activities.

8. Environmental Friendly Student Activities

Esa Unggul University also organizes activities that are environmentally friendly, including the Run to Recycle Activity program which started in 2022 and has become a routine agenda. This activity is an activity based on the application of healthy living combined with education about the sustainability of a healthy environment. Participants who participate in these activities are required to bring plastic bottle waste to be collected later. The collected plastic waste will then be sold and the proceeds from the sale will be donated to social activities. The Run to Recycle program is also carried out based on the collaborative efforts of Esa Unggul University and Bank DKI in realizing the sustainability of a healthy and productive environment.

Organic Waste Treatment

Picture 1. Esa Unggul University green campus task force team



Picture 2. Organic waste disposal facilities at Esa Unggul University



Picture 3. The process of transporting, weighing, and sorting waste at Esa Unggul University



Collection of dry leaf litter



Making compost from dry leaf litter

Picture 4. Process of processing organic waste at Esa Unggul University



Utilization of eco enzyme to maintain the water quality of Esa Unggul lake



Esa Unggul University tree seed house for the use of fertilizers from managing vegetable waste and dry leaves



The process of collecting used fruit and vegetable waste



Eco Enzyme products from fruit and vegetable waste

Picture 5. Process for using processed organic waste products at Esa Unggul University

Description:

Esa Unggul University manages organic waste generated from the campus community consisting of employees, students, and including the canteen. Efforts to manage organic waste on the Esa Unggul University campus are carried out through the following steps:

1. Formation of a green campus task force team
The university has a green campus task force team consisting of lecturers, cleaners, park staff, and students. This task force team is dealt in monitoring, evaluating, and innovating organic waste management in the Esa Unggul University campus. Activities that are routinely carried out by the Green Campus Task Force Team include socializing about organic waste management, training on recycling organic waste into compost and eco-enzymes, as well as facilitating the development of research on organic waste management. Through the green campus task force team, the entire community of Esa Unggul University can actively participated in managing campus organic waste so that it has useful and economic value for the welfare of the campus community.
2. Provision of segregated waste disposal facilities
Esa Unggul University seeks to provide segregated waste bins according to the waste category. Trash cans are placed in various corners of closed and open spaces in the campus environment, where it aims to shape the behavior of the campus community so that they are accustomed to disposing of waste according to the category or type of waste. Provision of segregated waste disposal facilities is carried out as an initial stage in implementing organic waste management.
3. The process of transportation to a special TPS for Organic
After the organic waste has been collected in the waste storage places that have been provided, then the cleaning staff will transport the waste to a Temporary Disposal Site (TPS) specifically for organic waste. TPS officers will weigh the waste received at the TPS and then assess the quality of the waste, if the waste comes from organic waste mixed with food scraps and dry leaves, the waste will be stored in the TPS logistics section for composting and if the waste comes from organic waste which is fresh leaves and fresh vegetables, the waste will be stored in the TPS logistics for making ecoenzymes.

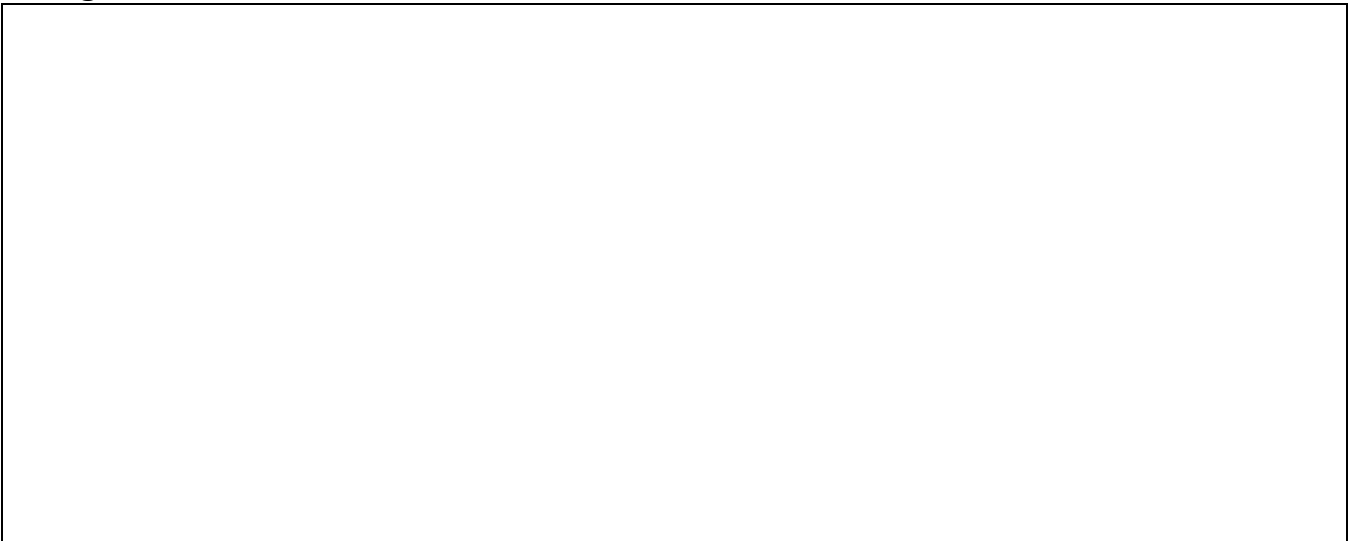
4. Processing by a team of park staff

After the waste is accommodated in the Temporary Shelter (TPS) for organic waste that has been sorted according to its quality, a team consisting of park staff and students will manage the waste into compost and eco-enzyme products. Based on the records of the Esa Unggul University green campus task force team, the organic waste produced is an average of 93.5 kg/day, of which 70-75 kg of organic waste produces 50 kg of compost fertilizer, 5-10 liters of Ecoenzyme fluid, and 5-10 kg of organic waste. waste that is disposed of as a form of waste that cannot be used.

5. Process for product utilization Manage waste

Products produced from organic waste management activities at Esa Unggul University are utilized for various internal and external purposes. Compost and ecoenzyme products are used to treat plants and soil in the campus environment to increase fertility and plant health. The resulting ecoenzyme products are also used to treat garden pond water to maintain the stability of the acidity of the pond water to maintain water quality and the health of fish in the pond. The products produced are also sold to the community of One Superior University who need them at competitive prices and are used in various research and community service activities by lecturers and students.

Inorganic Waste Treatment



Gambar 1. Formation of a green campus task force team



Gambar 2. Provision of segregated waste disposal facilities



Gambar 3. The process of transportation to a special TPS Inorganik





Gambar 4. Inorganic waste treatment process



Gambar 5. Process for utilizing the resulting product Manage waste

Description:

Esa Unggul University carries out efforts to manage inorganic waste generated from the campus community consisting of employees, students, and including laboratories. Efforts to manage inorganic waste on the Esa Unggul University campus are carried out through the following steps:

1. Formation of a green campus task force team

The university has a green campus task force team consisting of lecturers, cleaners, park staff, and students. This task force team is tasked with monitoring, evaluating, and innovating on the management of organic and inorganic waste in the Esa Unggul University campus. Activities that are routinely carried out by the Green Campus Task Force Team include socializing about waste management, training on the use of inorganic waste, and facilitating the development of research on inorganic waste management. Through the green campus task force team, the entire community of Esa Unggul University can actively participate in managing campus inorganic waste so that it has added value and economic value for the welfare of the campus community.

2. Provision of segregated waste disposal facilities

Esa Unggul University has provided segregated trash bins according to the waste category. Trash cans are placed in various corners of closed and open spaces in the campus environment, where it aims to shape the behavior of the campus community so that they are accustomed to disposing of waste according to the category or type of waste. The provision of segregated waste disposal facilities is carried out as an initial stage in implementing waste management including inorganic waste and B3 waste. To accommodate inorganic waste made from plastic, Esa Unggul University provides a special basket of plastic bottles so that waste with economic value can be separated from the initial stage of disposal.

3. The process of transportation to a special TPS Inorganik

After the inorganic waste has been collected in the provided waste storage places, then the cleaning staff will transport the waste to a special temporary disposal site (TPS) for inorganic waste and carry out weighing and recording activities of the type and weight of the waste.

1) Plastic inorganic waste

Inorganic waste in the form of plastic bottles is collected at special TPS for plastic bottles. The waste is then compacted to become lumps of plastic waste.

2) B3 inorganic waste

Inorganic waste that is toxic/B3 in the form of toxic/B3 waste is collected at special TPS available at the location of the health laboratory. B3 type waste is separated based on liquid and solid. Waste that includes liquids is stored in a special conductor, while waste that includes solids is stored in special yellow plastic B3.

3) Inorganic electronic waste

Inorganic waste in the form of electronic goods is mostly produced from computer laboratory equipment and the University IT unit. Electronic type waste is tamped in a special room at the electronic TPS in the computer laboratory building.

4. Inorganic waste treatment process

After the waste is collected in the Temporary Shelter (TPS) according to the type of inorganic waste collected, then the officers recycle the waste according to its type so that it has use and economic value and minimizes the final amount of waste that is disposed of. Waste processing is carried out based on each type, namely:

1) Plastic inorganic waste

Inorganic plastic waste that has been collected and compacted is then used for student learning purposes, especially for art and design students. Plastic waste is converted into art products that are exhibited and have economic value to be auctioned in exhibition events. Some of the plastic waste that has been collected and compacted according to its type is sold to waste collectors located around

the Esa Unggul University campus. The funds obtained from the sales proceeds are used to help develop campus waste management activities and also help improve the welfare of janitors at Esa Unggul University. Based on the records of the Esa Unggul University green campus task force team, the amount of inorganic plastic waste produced is an average of 62.5 kg/day, of which 50 kg of waste can be used for student creativity development activities and waste management cash funds, where an average of an average of 12.5 kg is wasted waste.

2) B3 inorganic waste

Inorganic B3 waste that has been accommodated in a special TPS for B3 waste will then be assessed for quality by the health laboratory team. Liquid B3 waste which is the result of practical work and research in health laboratories that does not contain heavy metals but contains bacteria or fungi is used as a composer when making eco-enzyme fluids and also compost fertilizers after neutralization and balancing of acidity levels have been carried out. Based on the records of the Esa Unggul University green campus task force team, inorganic B3 waste produced is an average of 2.4 Kg/day of solid waste and 2.6 Kg/day of liquid waste, of which each Kilogram of liquid waste produces 2 Liters of Composer ecoenzyme and leaves 3-5% liquid waste that needs to be disposed of, while all solid waste is disposed of. The disposal of B3 waste is carried out in collaboration with a third party, namely PT Jalan Hijau as the manager of infectious B3 waste, so that in this case the B3 waste produced by Esa Unggul University is ensured to be disposed of according to procedures to prevent contamination with the surrounding environment.

3) Electronic inorganic waste

The electronic inorganic waste that has been accommodated in the TPS (Warehouse) specifically for electronics is then assessed for the quality of the components by the computer laboratory team. Electronic components that still have good functions will be separated as spare parts components for maintenance purposes of electronic devices that are still functioning and used by the Esa Unggul campus community. In addition, electronic components that have good functions are used for free service purposes for electronic devices for students and lecturers who need them as well as charitable activities for people in need. Electronic waste that has been sorted and can no longer be used for maintenance of tools and free service services, is then separated by type and then sold to waste collectors around the Esa Uggul University campus. The funds obtained from the sales proceeds are used to help develop campus waste management activities and also help improve the welfare of janitors at Esa Unggul University. Based on the records of the Esa Unggul University green campus task force team, the average electronic inorganic waste produced is 15 kg/month, most of which are used as spare parts and which are still fit for donation.

4) Product Design Department students make art from resin waste into handicraft products. In addition, students also use the waste of East Kalimantan batik cloth into goods of economic value.

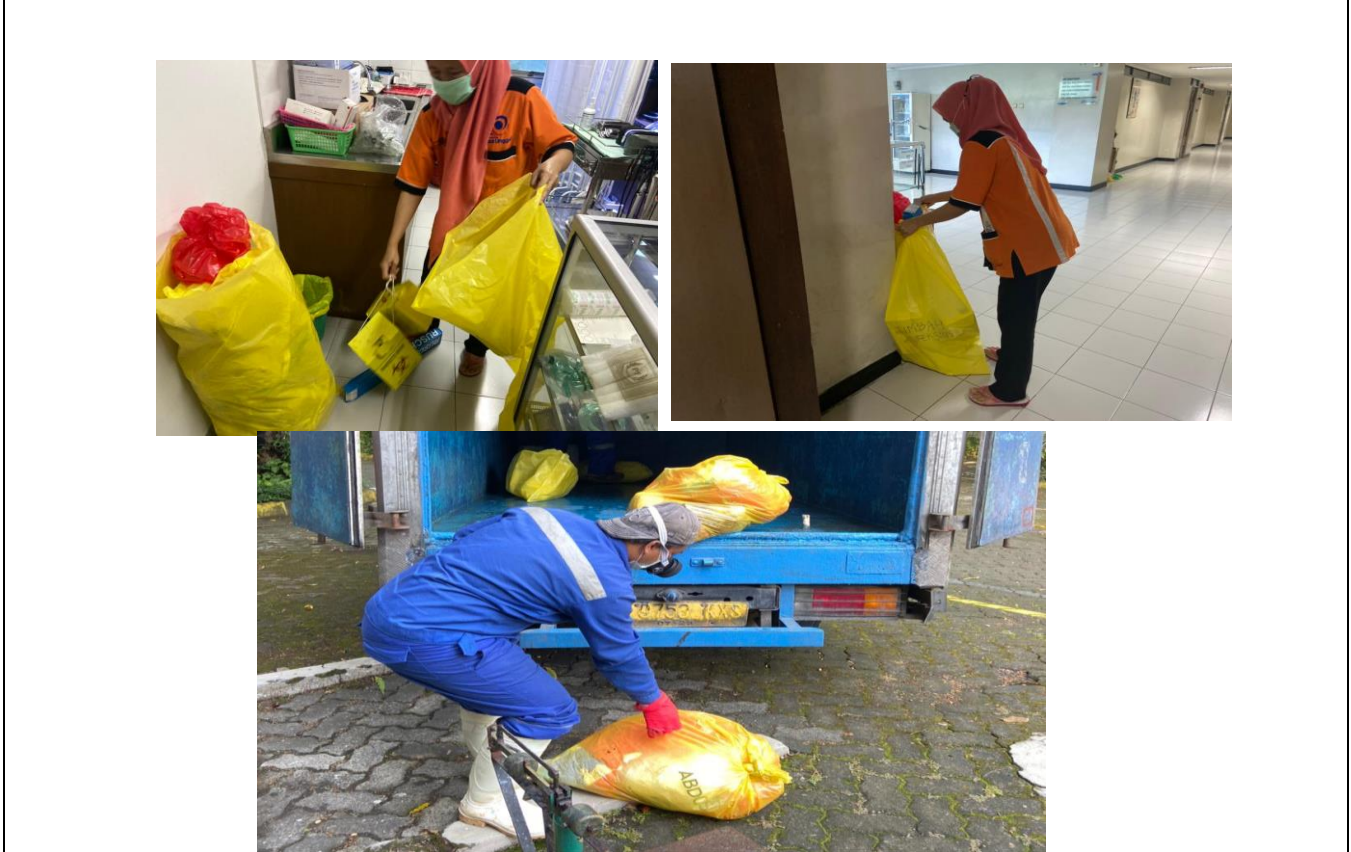
5. Process for utilizing the resulting product Manage waste

Products produced from inorganic waste management activities at Esa Unggul University are utilized for various internal and external purposes. Inorganic waste products include composers for making fertilizers and ecoenzyme fluids, spare parts for maintenance of electronic equipment, student artwork, logistics for charity activities, spare parts for free electronic service services, and development funds for employee welfare.

Toxic Waste Treatment



Gambar 1. . Provision of special B3 waste disposal facilities Universitas Esa Unggul



Gambar 2. The process of transportation to a special TPS B3



Gambar 3. The process of sorting of B3 waste Universitas Esa Unggul



Gambar 4. Proses pengujian dan pengolahan kualitas limbah beracun beracun di Universitas Esa Unggul

Description

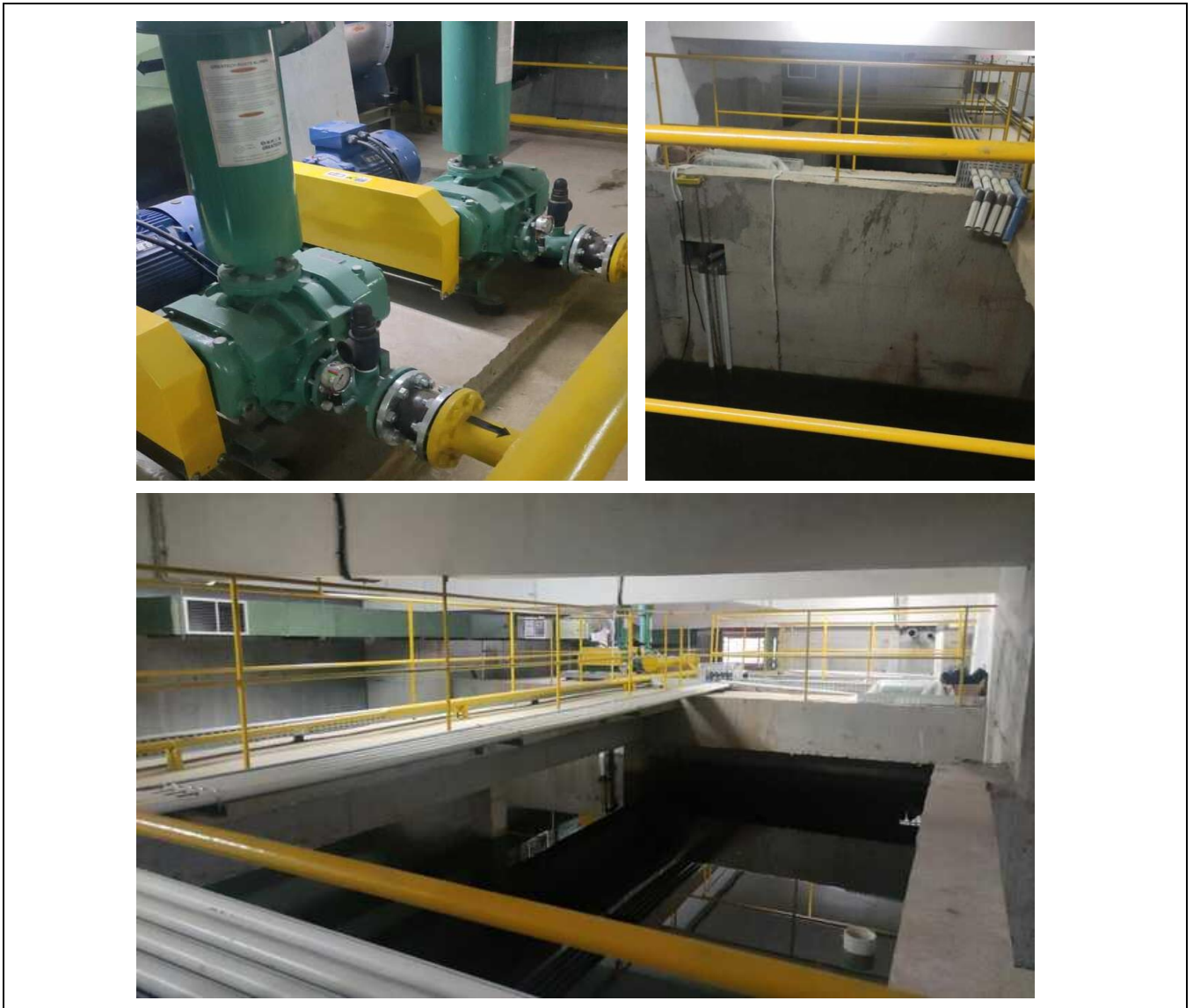
Esa Unggul University carries out the management of toxic waste generated in activities on campus. Toxic waste at Esa Unggul University is generated from the activities of the health laboratory. Efforts are made to manage toxic waste or B3 waste in the following ways:

1. Provision of special B3 waste disposal facilities
Esa Unggul University applies the 14001 standard in maintaining occupational health and safety in health laboratories. Laboratory waste management is managed starting from how to dispose of it, how to accommodate it, to distribution for further disposal. Each laboratory room has a solid and liquid waste storage area according to disposal safety standards. Waste is disposed of in a trash can lined with special yellow plastic for B3 waste, while liquid waste is disposed of in a special plastic tube for B3 waste which is divided into two, namely heavy metal waste and bacterial or fungal waste.
2. The process of transportation to a special TPS B3
After the waste that is classified as toxic is accommodated in the dumping site in each room, the waste will be transported by trained cleaners using personal protective equipment to the location of the temporary storage room with the 3 T principle (collect, weigh, and place) according to standard procedures.
3. The process of sorting the quality of B3 waste
The waste that has been placed in the temporary storage room is assessed by the laboratory staff for quality of the waste for sampling and measuring the levels of heavy metal contamination, acidity (Ph) and bacteria. Liquid waste that contains bacteria but does not contain heavy metals is then diluted with sterile water to neutralize acidity (pH) until it reaches normal limits.
4. The process of utilizing the products resulting from B3 waste management (quantity)
Toxic waste in the form of liquid that has been tested and neutralized its acidity level is then used as a liquid for making coenzymes. Waste that cannot be processed by the laboratory is disposed of through periodic transportation activities by a third party, namely PT Jalan Hijau as the infectious waste manager.

Additional evidence links:

EUU Cooperation with third parties in efforts to transport B3 waste

Sewage Disposal



Gambar 1. Provision of Shelters



Gambar 2. Waste testing Procces in Universitas Esa Unggul

Description:**1. Provision of Shelters**

Esa Unggul University is committed to providing a collection of waste that comes from bathroom waste and used dish washing used in canteens and places of worship. This reservoir will lead to an aeration reservoir which has a blower with a driving engine to circulate oxygen. After some time, the aerated waste is transferred to a sedimentation tank.

2. In the sedimentation reservoir, there will be a separation of the sludge originating from the sediment from the waste. Sludge that still contains microorganisms is flowed back to the reactor/aeration reservoir to be processed to maintain the concentration of bacteria.**3. The water that has been separated from the sedimentation tank will be channeled to the university's water source to be reused by the garden unit for watering plants in the university environment.****4. The university also checks the waste water content in the health laboratory unit at least once every three months to ensure that the results of waste treatment are in accordance with water quality standards.****5. The treated water is reused for watering plants and urinals.****Additional evidence link:**

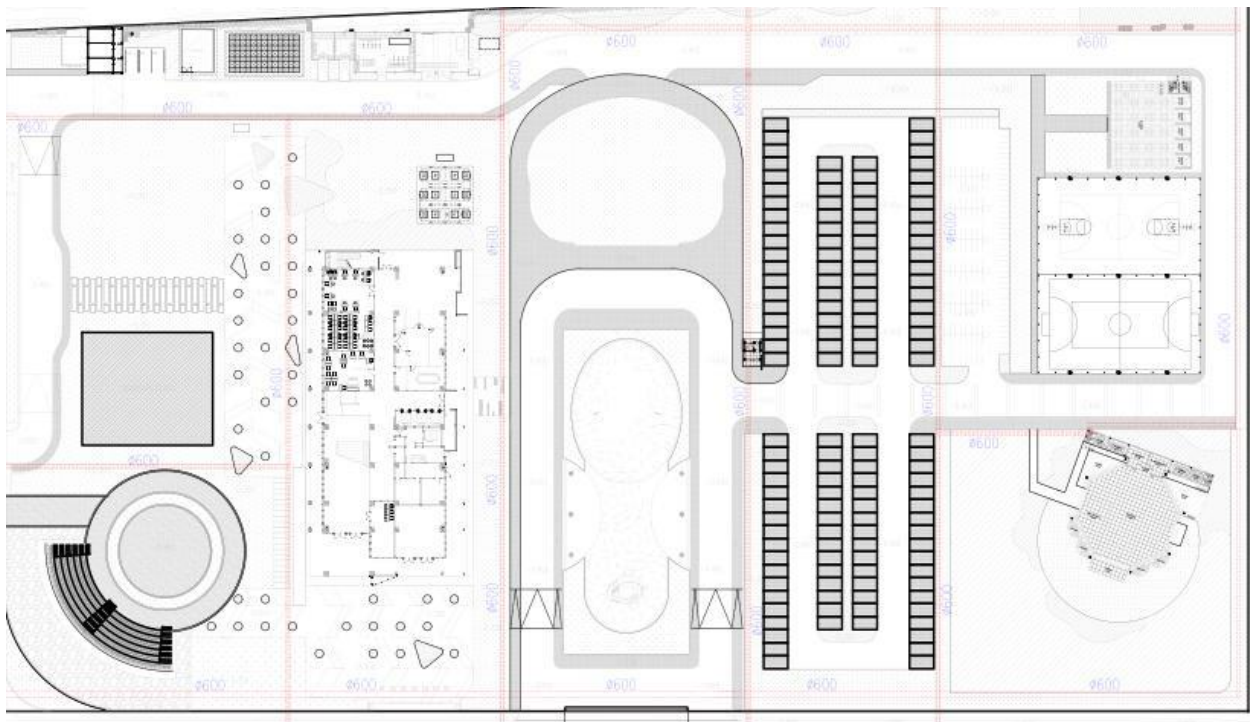
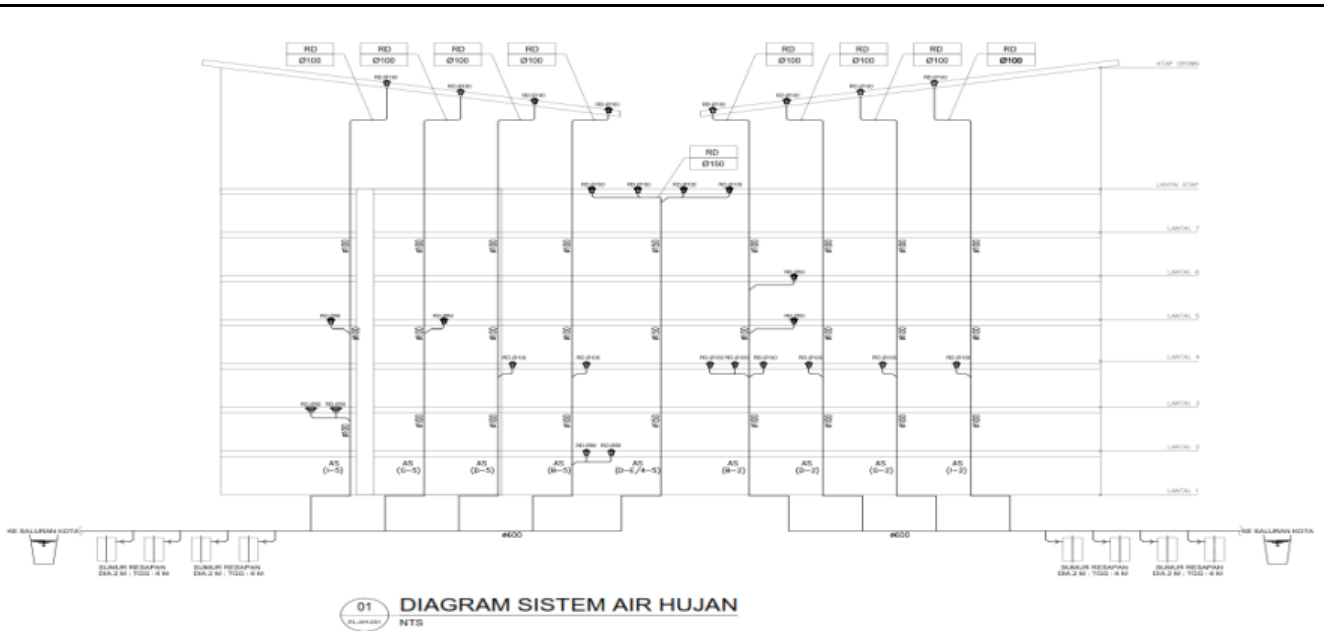
The link on the ueu web about activities using campus waste water to be used as water for watering plants



4

Water

Water Conservation Program Implementation

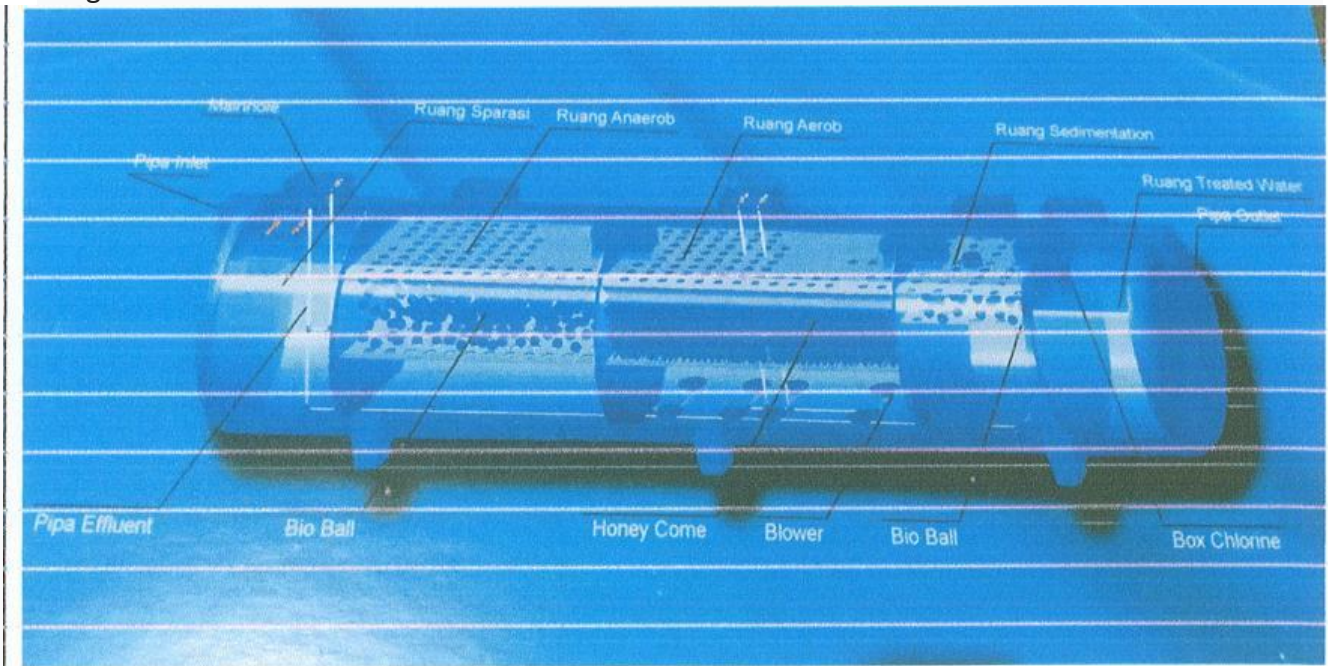


Denah Saluran Air Hujan

Description:

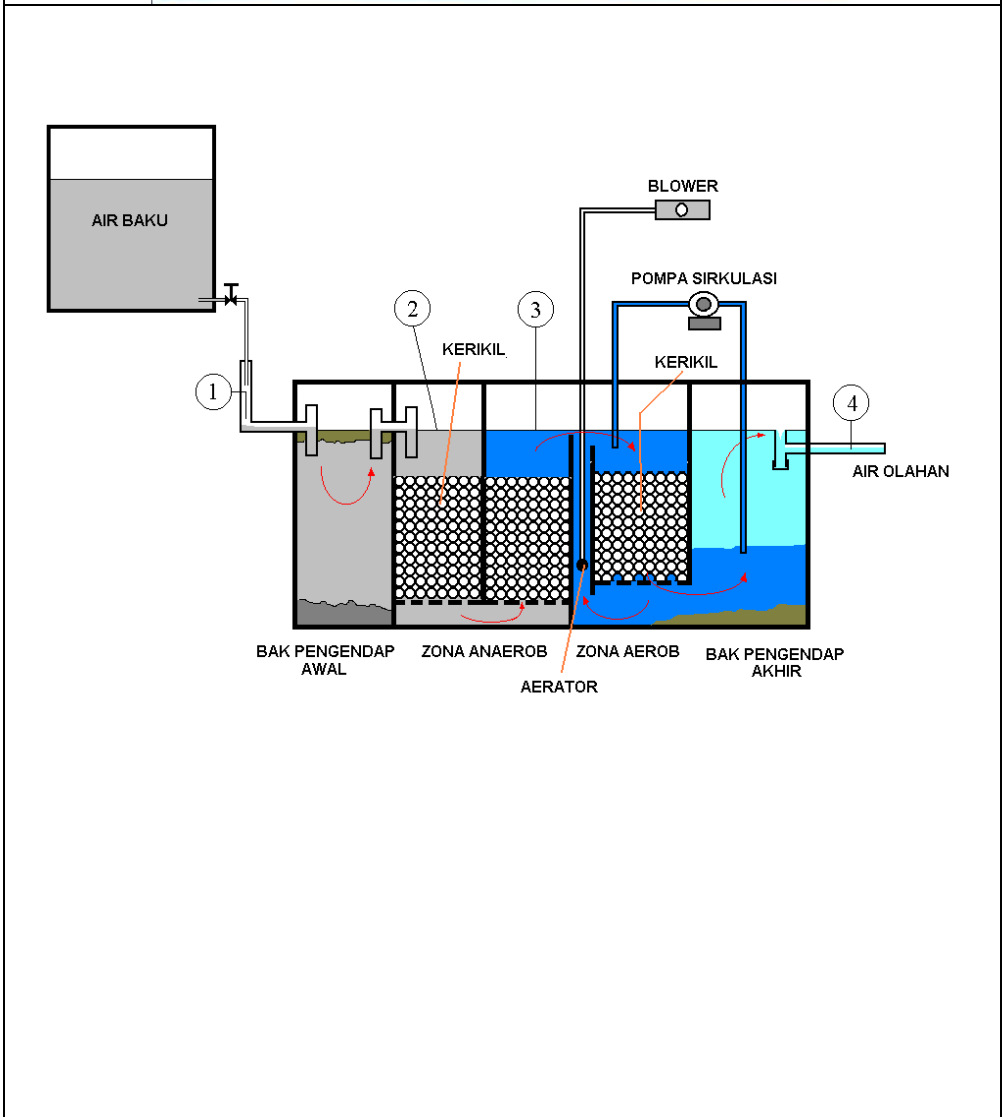
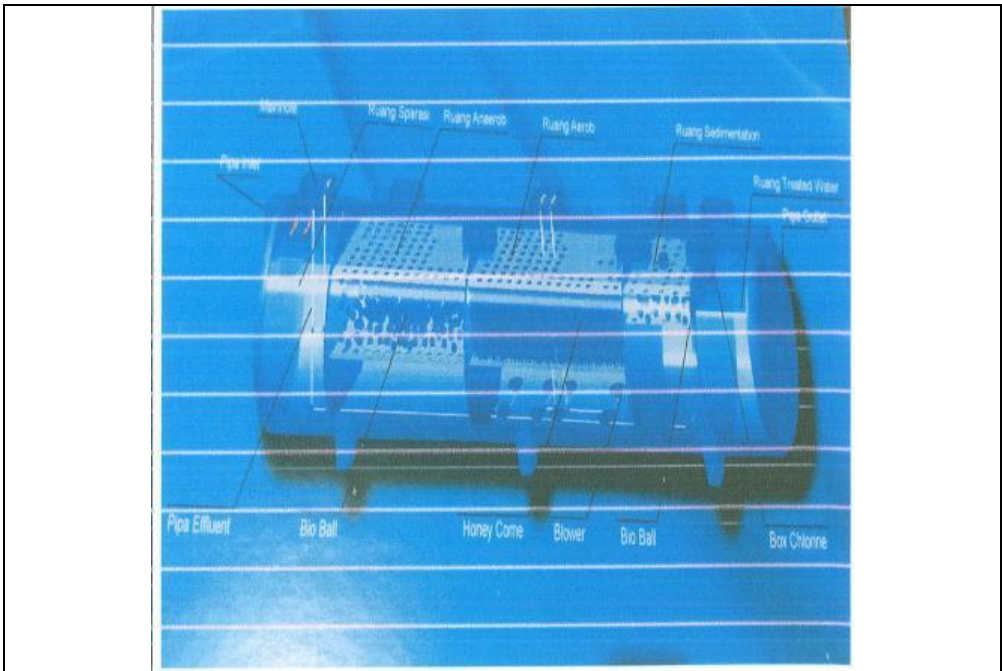
Program :

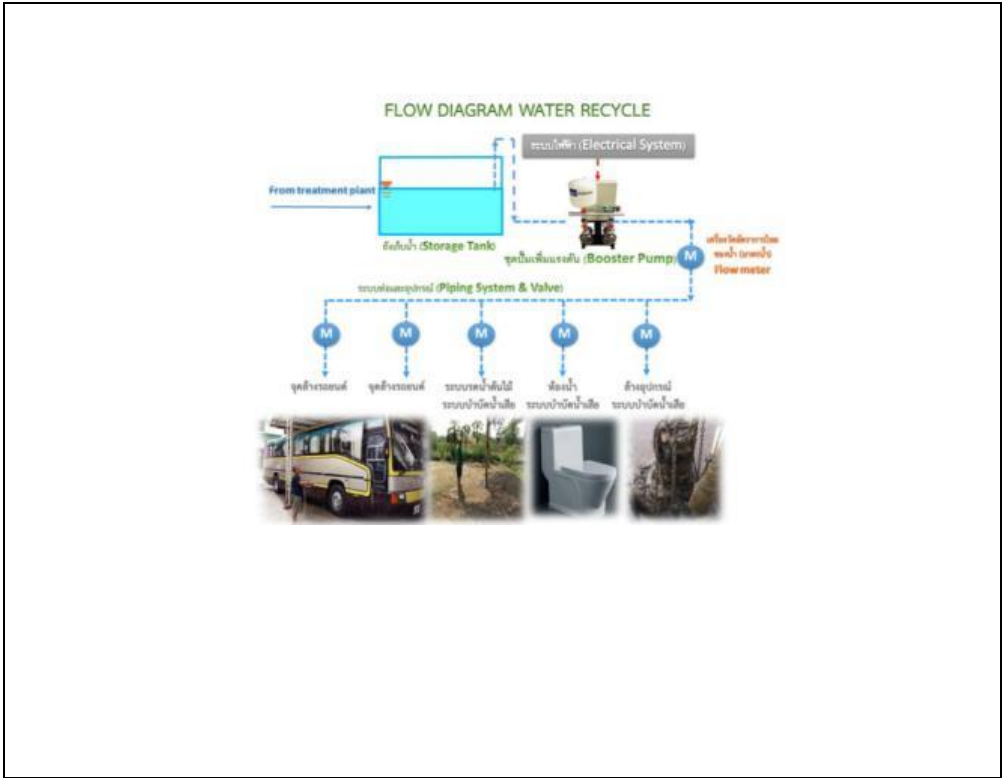
Esa Unggul University Bekasi Campus has a fairly large green area +- , from a total land area of 30,000m² has a building designed to convert rainwater channeled through the building's drain pipe to each infiltration point, the infiltration point has also been arranged so that it can reach green areas, the results of rainwater conversion are used for watering ornamental plants, fruit crops as well as grass. So that esa university excels bekesi campus can save the use of clean water for garden maintenance.



The following is a drawing of the design of the wastewater treatment system, in detail domestic waste will be accommodated in the separation room to precipitate particles, sludge, sand and suspended organic impurities, in addition to being a settling room also functions as a flow control room which is also an equalization room, as well as a decomposition room for organic compounds in the form of solids, sludge digestion (sludge decomposer) and sludge reservoir. Next into the Anaerobic chamber, runoff water from the initial settling chamber is then flowed into the anaerobic contactor chamber with flows from top to bottom and from bottom to top. Inside the contactor chamber is filled by HDPE anaerobic media (high density polyethylene), top-down support by FRP net and wiper / baffle FRP. And then it is processed into water that can be reused to be used to water plants around the campus area and is safe if exposed to human skin. In this program, it is a form of the university's commitment to maintain water resources and not wastefully use water sourced from the ground and protect water from domestic waste.

Water Recycling Program Implementation





Description:

Esa Unggul University Bekasi Campus has been equipped with a water recycling system. Media STP (Sewage Treatment Plant) or Domestic Wastewater Treatment Plant is a stage of domestic waste treatment so that domestic liquid waste does not increase water pollution and the surrounding environment. The final processed results can meet wastewater quality standards in accordance with applicable regulations. The water results have been lab tested so that they are safe if exposed to the skin and the water results are reused for watering plants and grass around campus. Light-level water treatment program, and the amount of rainwater Recycled water is also used for garden sprinkler systems, toilet flushes, and used in fish ponds.

Water Efficient Appliances Usage (e.g. hand washing taps, toilet flush, etc.)

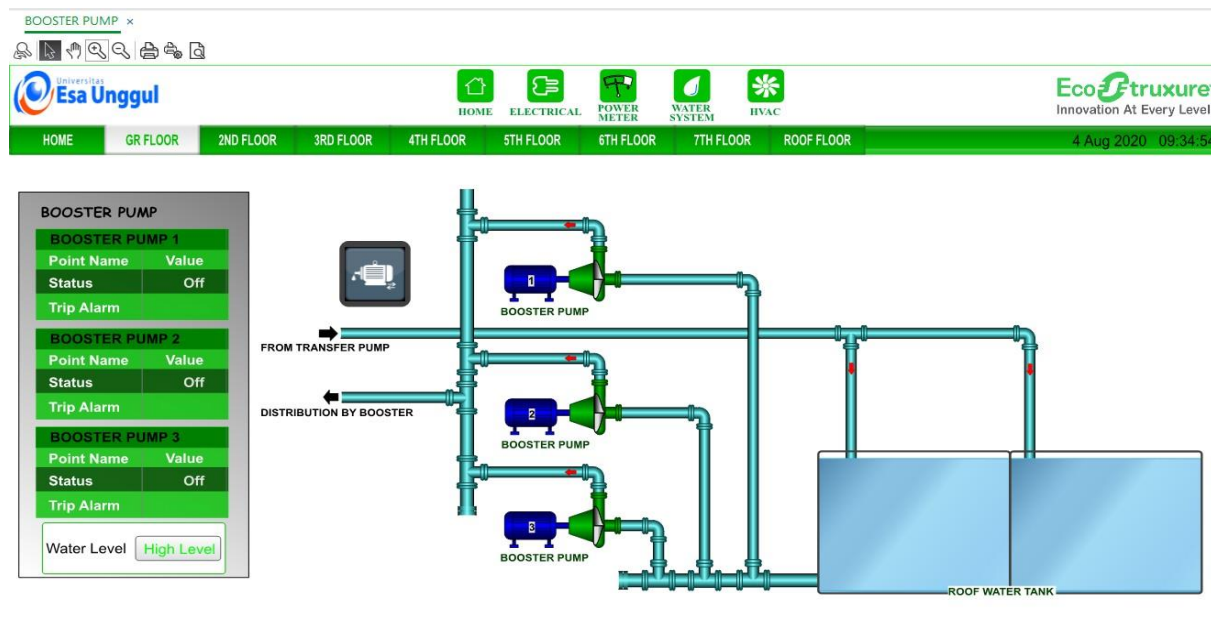
	<p>Foto wastafel toilet</p>
<p>Example of Water Efficient Appliances Usage (Universitas Esa Unggul, Indonesia)</p>	

Description:

(Please describe the water efficient appliances usage on your campus. The following is an example of the description. You can describe more related items if needed.)

Some examples of water conservation measures include, cisternisers (automatic control of urinal flushing), waterless urinals, low flush WC's and low flo taps and automatic taps.

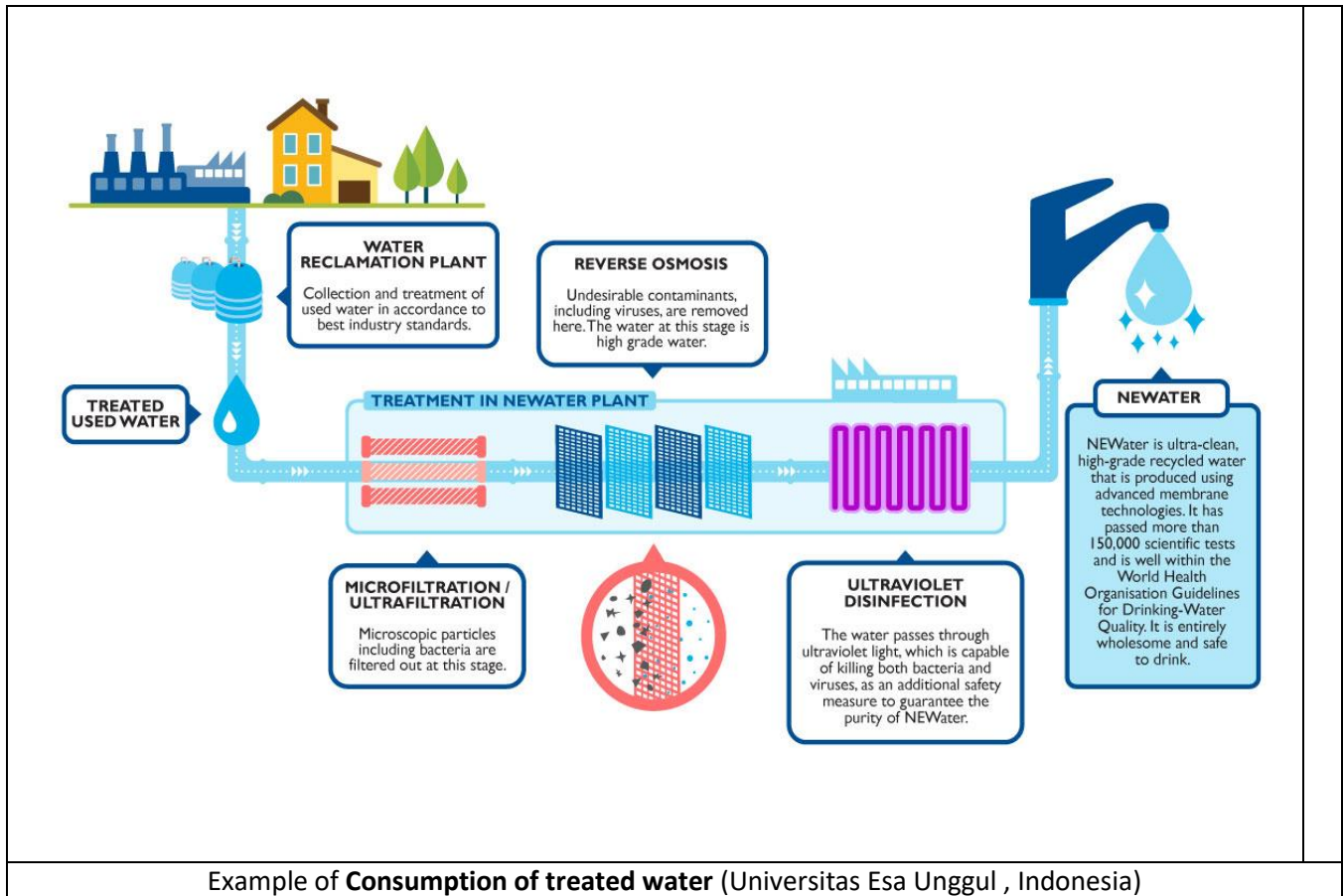
Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	250	150	60%
Wastafel	150	100	66%
Etc.
		Average Percentage	63%



Selain dari perangkat yang di gunakan di toilet universitas Esa unggul juga sudah melengkapi gedung nya dengan sistem monitoring Air bersih yang teralirkan didalam gedung mulai dari Ground water tank (GWT) sampai ke Rooftank selanjutnya di alirkan kedalam gedung untuk pemakaian air sehari hari, fungsi dari sistem tersebut adalah dapat mengetahui apabila terjadi kebocoran pada installasi pipa didalam gedung dengan di tandai suply air di rooftank habis secara mendadak dan pompa blower didekat rooftank meyala terus menerus sehingga bisa mengetahui kebororan pada installasi pipa sejak dini, demikian dapat mengurangi pemborosan air yang tidak di gunakan secara terus menerus.

Apart from the devices used in the toilets of Esa Unggul University has also equipped its building with a monitoring system Clean water that flows in the building starting from the Ground water tank (GWT) to the Rooftank then flowed into the building for daily water use, the function of the system is to be able to find out if there is a leak in the installation of pipes in the building by marking suply the water on the rooftank runs out suddenly and the blower pump near rooftank meyala continuously so that it can know the wastefulness of pipe installation early on, so as to reduce the waste of water that is not used continuously.

Consumption of treated water

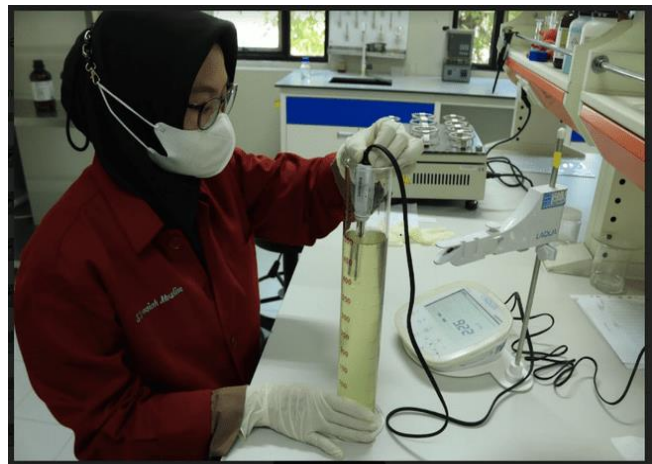


Description:

Esa Unggul University Will Establish cooperation with NEWater, singapore in terms of treating wastewater into consumable drinking water, with the method The first step of recycling water in the NEWater system is to collect wastewater in a water reclamation plant for standard treatment. Then, the treated water is sent to the NEWater plant. NEWater technology requires a three-stage process for water purification: Microfiltration/Ultrafiltration, Reverse Osmosis (RO), and Ultraviolet Disinfection. These three stages ensure the water is free of bacteria, viruses, and other possible contaminants.

Reclaimed water is mainly used for industrial purposes and air cooling. In addition, it can also be added to the raw water reservoir when necessary. As of April 2020, 20,000 analyses have been performed to test the quality of NEWater. The results show that NEWater is cleaner than Singapore's tap water in terms of color, clarity and organic substances. This reclaimed water is actually used as the main water supply for wafer fabrication plants, which require a super clean environment to be able to operate.

Water pollution control in campus area



Water quality sampling and monitoring at Danau, Universitas Esa Unggul, Indonesia

Description:

Esa University excels in having a water reservoir in the form of a large enough lake and the lake is used as a reference for water quality around the campus that is mixed and flowed directly into the environment, the lake is maintained and researched for water quality so that the water that is channeled out is ensured to be safe if it is exposed to the human body and does not interfere with the environment, In its application wastewater quality tests are carried out every month periodically and measurably using tools provided in Clinical Trial Lab owned by Esa Unggul University.



5

Transportation

Vehicle Population



Description:

The number of vehicles, both cars and motorbikes, based on the population of the Esa Unggul University campus is currently very controlled. Pandemic and endemic really help the green campus program, especially in creating restrictions on motorized vehicles in the campus environment. So that the expected results can be realized.

Additional evidence link:

<https://greencampus.esaunggul.ac.id>

Shuttle Services



Rute Shuttle Campus Bus Universitas Esa Unggul

Lapisan tanpa judul

Petunjuk arah dari Universitas Esa Unggul, Jalan Arjuna Utara RT.1/PHK.2, Duri Kippo, Kota Jakarta Barat, Daerah Khusus Buktora, Jakarta ke University Esa Unggul Bekasi Harapan Indah, Jalan Boulevard Raya Kota Harapan Indah, Harapan Mulya, Kota Bekasi, Jawa Barat


- Universitas Esa Unggul, Jalan Arjuna Utara, RT.1/PHK.2, Duri Kippo, Kota Jakarta Barat, Daerah Khusus Buktora Jakarta
- Universitas Esa Unggul Kampus Citra Raya, Mekar Bakti, Tangerang, Banten
- University Esa Unggul Bekasi Harapan Indah, Jalan Boulevard Raya Kota Harapan Indah, Harapan Mulya, Kota Bekasi, Jawa Barat

Rute Shuttle Campus Bus Universitas Esa Unggul





Shuttle Services (Esa Unggul University, Indonesia)



**JADWAL KENDARAAN SHUTTLE
UNIVERSITAS ESA UNGGUL**

SENIN	SELASA	RABU	KAMIS	JUM'AT	SABTU
07:00	07:00	07:00	07:00	-	-
09:00	09:00	09:00	09:00	-	-
11:00	11:00	11:00	11:00	-	-
13:00	13:00	13:00	13:00	-	-
15:00	15:00	15:00	15:00	-	-
17:00	17:00	17:00	17:00	-	-

SENIN	SELASA	RABU	KAMIS	JUM'AT	SABTU
07:00	07:00	07:00	07:00	-	-
09:00	09:00	09:00	09:00	-	-
11:00	11:00	11:00	11:00	-	-
13:00	13:00	13:00	13:00	-	-
15:00	15:00	15:00	15:00	-	-
17:00	17:00	17:00	17:00	-	-

SENIN	SELASA	RABU	KAMIS	JUM'AT	SABTU
07:00	07:00	07:00	07:00	-	-
09:00	09:00	09:00	09:00	-	-
11:00	11:00	11:00	11:00	-	-
13:00	13:00	13:00	13:00	-	-
15:00	15:00	15:00	15:00	-	-
17:00	17:00	17:00	17:00	-	-

SENIN	SELASA	RABU	KAMIS	JUM'AT	SABTU
07:00	07:00	07:00	07:00	-	-
09:00	09:00	09:00	09:00	-	-
11:00	11:00	11:00	11:00	-	-
13:00	13:00	13:00	13:00	-	-
15:00	15:00	15:00	15:00	-	-
17:00	17:00	17:00	17:00	-	-

- Jadwal dapat berubah sewaktu - waktu
 - Jadwal tersebut bisa berubah/off beroperasi jika Bus digunakan kegiatan mahasiswa
 - Untuk konfirmasi keberangkatan dapat menghubungi Driver Bus masing masing Kampus

KRITIK DAN SARAN DAPAT MENGHUBUNGI:
 - Operasional Bus (Bapak Johan +62 857-1569-1474)

Shuttle Services – Bus Timetable

Description:

Currently the shuttle service that operates in 3 campuses serves shuttles for students and lecturers who will carry out practicum activities and other activities for students, as well as teaching activities for lecturers according to a predetermined schedule, this shuttle schedule is held regularly and free of charge. . For this semester, because lectures are still limited, the schedule is determined according to the current schedule that applies. To see the entire departure schedule for shuttle vehicles, students and lecturers can view the schedule directly at the vehicle operational unit of each campus.

Additional evidence link:

<https://www.esaunggul.ac.id/universitas-esa-unggul-tambah-bus-kampus/>

Zero Emission Vehicles (ZEV) Policy on Campus

	
<p>Bike Park (University Esa Unggul Tangerang ,Indonesia)</p>	<p>security patrol bike</p>
	
<p>Bike Park (Univeristy Esa Unggul Jakarta,Indonesia)</p>	<p>Disability facilities</p>

Description:

Esa Unggul University has a policy regarding emission-free vehicles through the Chancellor's Decree to carry out various program activities as a form of implementation in realizing an environmentally friendly campus and providing emission-free vehicles, namely several bicycles for student activities for free to go around the campus environment, then for security personnel operational activities. campus in carrying out security and control tasks in the campus environment.

The campus environment of Esa Unggul University is also very friendly for cyclists and pedestrians, so we also think about these facilities and even paths for people with disabilities have been arranged in such a way from parking locations, lanes to special toilets for people with disabilities.

Then there is also a special bicycle parking area to accommodate as many as 40 bicycles in the bicycle parking lot, we also provide special bathroom facilities for bicycle users if they are going to take a shower and change clothes.

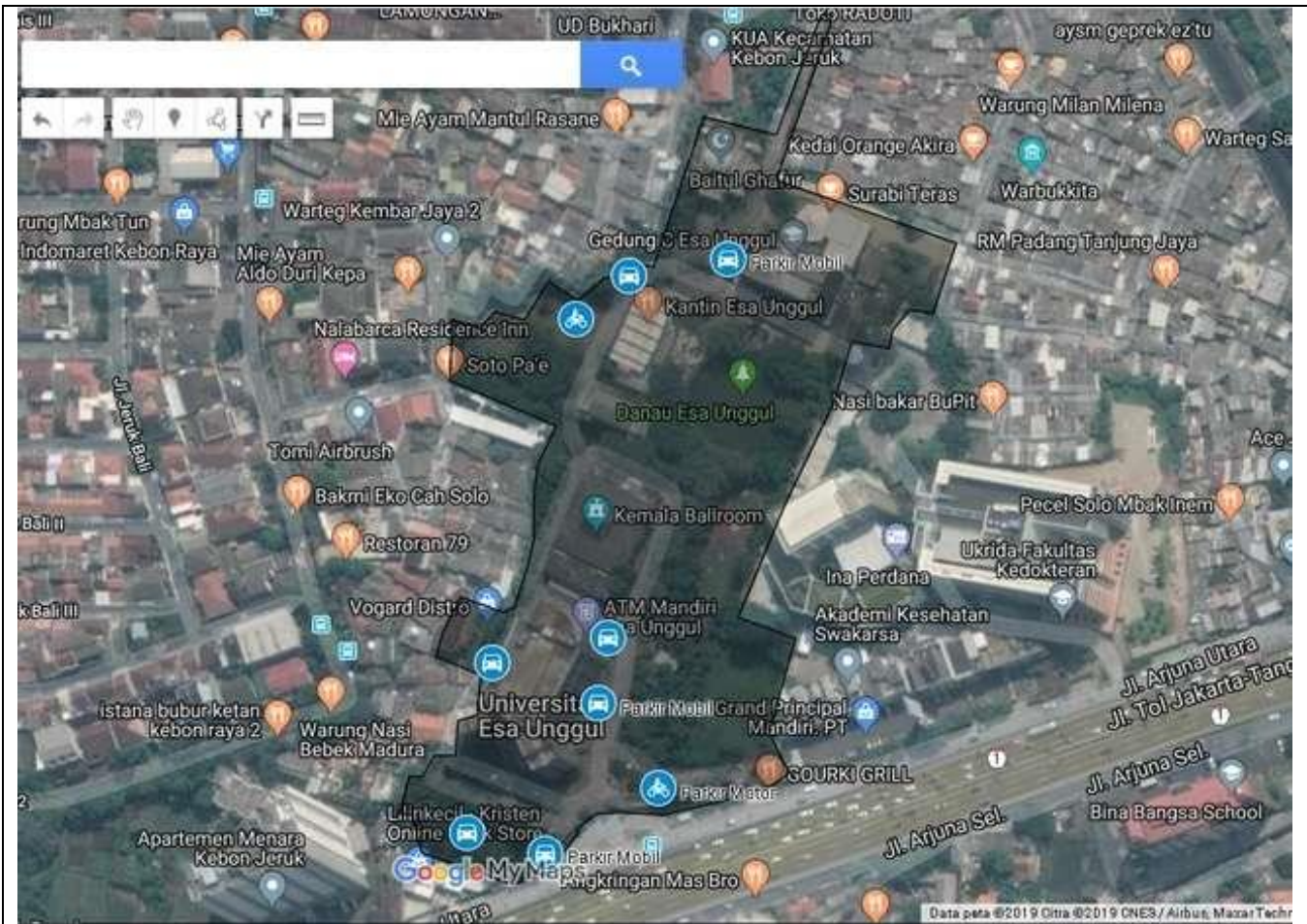
in addition there is also information on vehicle speed limits of 5-10 mph on all internal roads, and bicycle lanes on public roads.

For campus security personnel activities are also carried out by using Patrol Bikes without emissions in controlling the security of the campus environment.

Additional evidence link:

<https://greencampus.esaunggul.ac.id/>

Ratio of Parking Area to Total Campus Area



Parking Area to Total Campus Area (Universitas Esa Unggul, Jakarta)



Parking Area to Total Campus Area (Universitas esa Unggul, Bekasi)



Parking Area to Total Campus Area (Universitas esa Unggul, Tangerang)

Description:

The ratio of the total available parking for both motorbikes and cars to the total campus area at the Kebon Jeruk campus, Bekasi Campus and Tangerang Campus are as follows:

- a. Total main campus area: 40.497 m²
Total parking area Campus Jakarta = 4200m² (552 Motorbike , 105 Car).
- b. Total main Campus Bekasi : 30.000²
Total Parking area : 3420m² (200 Motorbike, 40 car)
- c. Total Main Campus Tangerang : 15.620m²
Total Parking Area : 2293m² (154 Motorbike, 46 Car)

Additional evidence link:

<https://greencampus.esaunggul.ac.id/>

Number of Transportation Initiatives to Decrease Private Vehicles on Campus



Programm Initiatives (Esa Unggul University, Indonesia)



Description:

The transportation program campaigned by Esa Unggul University to limit or reduce the vehicle parking area in the campus environment is to jointly follow the DKI Jakarta Capital City government regulations that have been proclaimed and even apply on weekends in other areas such as tourist areas, where the program is the application of vehicles. Odd Even is based on date and vehicle number plates, so this program will help reduce the population, and vehicle parking area every day.

so that the reduced parking area can be used for other activities.

This program has been going on for the last 3 years, and it is enough to reduce the use of the area or parking space between 10 to 30 percent.

Additional evidence link:

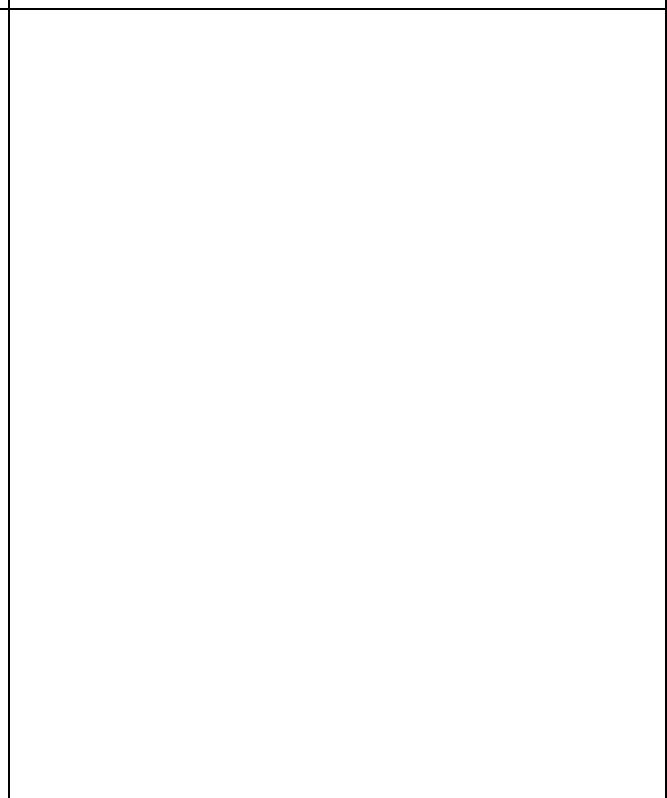
<https://greencampus.esaunggul.ac.id/>

Number of Transportation Initiatives to Decrease Private Vehicles on Campus

Picture A



Picture B



Description:

To reduce the vehicle population in the Esa Unggul University environment in launching the green campus movement, there are several Transportation Program design initiatives launched at Esa Unggul University by launching a program or campaign to help reduce air pollution and reduce the vehicle population on campus, and the program applies to all society, namely:

- a. The Let's use bus program is a public transportation program provided for students, both practicum and cross-campus learning activities with predetermined routes and schedules, as well as for lecturers who will teach on their respective campuses so that the academic community can use this program without using private vehicles.
- b. The next program is a campaign to help reduce air pollution by using public transportation, pollution-free transportation such as bicycles by building bicycle communities in each campus.
- c. The third program is the odd-even implementation program based on the number of vehicles, this program in addition to following the government program in reducing the number of vehicles on the road, is used on campus as a program to reduce the vehicle population.

Additional evidence link:

<https://greencampus.esaunggul.ac.id/>

Pedestrian Path Policy on Campus



Pedestrian (Universitas Esa Unggul, Jakarta)



Pedestrian (Universitas Esa Unggul, Tangerang)



Pedestrian (Universitas Esa Unggul, Bekasi)

Description:

The pedestrian path at Esa Unggul University has been arranged in such a way as to be friendly, beautiful to look at and designed for safety and comfort for all road users, including students, lecturers, staff and even guests on each campus, and all of them are given instructions for pedestrians, even safety instructions. when an unexpected event occurs, namely emergency road directions to the gathering point.

Some parts are also equipped with facilities for people with disabilities, ranging from vehicle parking, pedestrian paths, to toilets, so that the entire academic community and visitors will feel comfortable and safe while on campus.

Additional evidence link:

<https://greencampus.esaunggul.ac.id/>



6

Education and Research

Number of Courses/Subjects Related to Sustainability Offered

Public Health	
Subject	Description
Environmental Audit Management System	Incorporate themes to ensure the sustainability of economic activity and applied in conjunction with environmental management systems, such as products designing for environment, accounting of environmental costs, complex systems of integrated management, eco-marketing of the products.
Environmental Health Risk Assessment	Incorporate themes relating sustainability and focusing on assessing health risk related environment
Environmental Health Laboratory	Incorporate themes relating sustainability and focusing on analysis some chemical hazard or pollutant in the environment
Environmental Impact Analysis	Incorporate themes relating sustainability and focusing on evaluating the likely environmental impacts of a proposed project or development, such as interrelated socio-economic, cultural and human-health impacts, both beneficial and adverse
Environmental Current Issues	Incorporate themes relating sustainability and focusing on environmental issues
Industrial waste	Incorporate theme relating sustainability and focusing in waste management industry
Clean Water Management	Incorporate theme relating environmental sustainability and focusing in clean water management
Food & Beverage Hygiene	Incorporate theme relating sustainability and focusing on food and beverage hygiene
Environmental Waste Management	Incorporate theme relating environmental sustainability and focusing on environmental waste management
Spatial analysis	Incorporate theme relating sustainability and focusing on spatial analysis
Sanitary Engineering	Incorporate theme relating sustainability and focusing on sanitary engineering
Basic Environmental Health	Incorporate themes relating green environment and sustainability
Environmental Quality Analysis	Incorporate themes relating sustainability and focusing on analysis the quality of environment
Accounting	
Mata Kuliah	Deskripsi
Intermediate Financial Accounting 1	Incorporate themes relating economic sustainability and focusing in financial - 1
Intermediate Financial Accounting 2	Incorporate themes relating economic sustainability and focusing in financial -2
Public sector accounting	Incorporate themes relating economic sustainability and focusing in public financial
Advanced Financial Accounting 1	Incorporate themes relating economic sustainability and focusing in advanced financial 1
Advanced Financial Accounting 2	Incorporate themes relating economic sustainability and focusing in advanced financial 2
Accounting Examination 1	Incorporate themes relating economic sustainability and focusing in financial and auditing 1
Accounting Examination 2	Incorporate themes relating economic sustainability and focusing in financial and auditing 2
Macro Economic	Incorporate themes related economic sustainability and focusing in how an overall economy—the markets, businesses, consumers, and governments—behave. It

	examines economy-wide phenomena such as inflation, price levels, rate of economic growth, national income, gross domestic product (GDP), and changes in unemployment.
Micro Economic	Incorporate themes related economic sustainability and focusing in the implications of incentives and decisions, specifically about how those affect the utilization and distribution of resources
E-Commerce	Incorporate themes related economic sustainability and an integral part of the global retail systems. It is focusing in marketing, purchase, and sale of goods and services on the Internet
International accounting	Incorporate themes relating economic sustainability and focusing in international accountancy

Regional Planning

Mata Kuliah	Deskripsi
Ecology And Natural Resource Analysis	Incorporate themes related to ecology and focusing to use renewable and non renewable energy in environment
Site Planning	Incorporate themes related sustainability and focusing to process the structure of space and forming intermediate spaces on land
Urban Planning	
Regional Planning	
Transportation Planning	
Regional and City Economics	Incorporate themes related sustainability and focusing to aspects of location and regional spatial planning into economic analysis
Urban Revitalization	Incorporate themes related sustainability and focusing to recycle and revitalization
Geographic Information System 1	Incorporate themes related sustainability. GIS is a computer system for capturing, storing, checking and displaying data related to positions on Earth's surface. It is enabling people to more easily see, analyse, understand patterns and relationships.
Geographic Information System 2	Incorporate themes related sustainability. GIS is a computer system for capturing, storing, checking and displaying data related to positions on Earth's surface. It is enabling people to more easily see, analyse, understand patterns and relationships.
Development Financing	Incorporate themes related green environment and economic sustainability and focusing on enabling local communities to support, encourage and catalyse expansion through public and private investment in physical development, redevelopment and/or business and industry.
Land Use and Development	Incorporate themes related green environment and sustainability and focusing on managing land uses and deciding where best to develop homes, parks, agriculture and industry, and where things should be left in their natural state.
Strategic Environmental Studies	Incorporate themes related green environment and sustainability and focusing to carry out by local governments before granting land and forest management permits

**Example of Courses/Subjects Related to Sustainability
(Universitas Esa Unggul, Indonesia)**



Description:

Pada gambar dapat kita lihat mata kuliah yang ditawarkan oleh Universitas Esa Unggul terkait sustainability dan environment. Jumlah mata kuliah terkait sustainability dan environment di UEU, dapat dilihat pada rincian sebagai berikut :

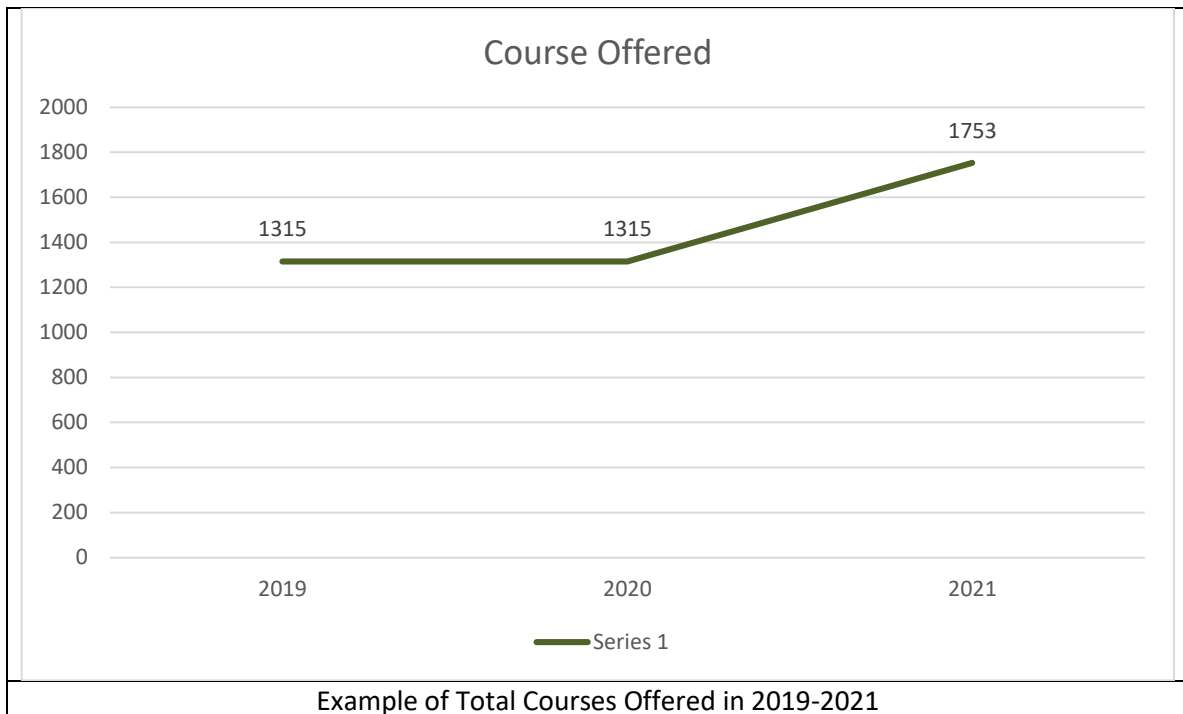
Tahun Ajaran 2019/2020 : 400

Tahun Ajaran 2020/2021 : 450

Tahun Ajaran 2021/2022 : 750

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

Total Number of Courses/Subjects Offered



Description:

UEU has 10 faculties and 34 excellent study programs that aim to answer the needs of the world of work, industry and business. UEU also strives for study programs that support sustainable development through courses in the fields of environment, infrastructure, economy and health. The number of courses offered in the 2019 academic year is 1,315, the 2020 academic year is 1,315 and the 2021 academic year is 1753 (including the master's level). In addition to the courses offered, UEU also applies the paperless principle so that documents are digital. UEU also always reminds to save energy, for example lights and air conditioners in class will be used during class, otherwise everything will be turned off and locked again. EUU also provides trash bins consisting of organic waste, inorganic waste and glass/plastic waste.

2019	1315
2020	1315
2021	1753

Total number of courses offered in 2021 = 1753 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/1qA2elqHEHkmjig1tBmjLzjM3SnaiscZB?usp=sharing>

Total Research Funds Dedicated to Sustainability Research (in US Dollars)

The image shows two screenshots of the LPPM website. The top screenshot displays the 'PENELITIAN' (Research) section, which includes a description of the LPPM's role in coordinating research and a photograph of two researchers in a laboratory. The bottom screenshot shows the 'Daftar Penerima Hibah' (Grant Recipients List) section, which lists various grant programs for the years 2017, 2018, and 2019, categorized by whether they are non-Ditlitabmas or Ditlitabmas grants.

Daftar Publikasi | LPPM


https://lppm.esaunggul.ac.id/daftar-penerima-hibah/

Universitas
Esa Unggul
Lembaga Penelitian Pengabdian Masyarakat

Beranda Tentang Kami Penelitian & Abdimas E-Jurnal Beasiswa Berita

PENELITIAN

LPPM mengkoordinasi dan memfasilitasi kegiatan penelitian yang bersifat multi, antar, dan lintas bidang yang diselenggarakan oleh pusat studi yang bersifat multidisipliner. Di samping itu, juga berfungsi sebagai pusat konsultasi persoalan-persoalan pengembangan masyarakat, terutama berkaitan dengan konsultasi kewirausahaan dan pengembangan usaha mikro, kecil dan menengah. Adanya pusat-pusat studi itu dimaksudkan agar dalam pengembangan penelitian terdapat kerja sama kelembagaan dan kekhasan berdasarkan fungsinya.



Daftar Penerima Hibah

+ [Daftar Penelitian Hibah Non Ditlitabmas Dosen Universitas Esa Unggul 2017](#)

+ [Daftar Penelitian Hibah Non Ditlitabmas Dosen Universitas Esa Unggul 2018](#)

+ [Daftar Penelitian Hibah Non Ditlitabmas Dosen Universitas Esa Unggul 2019](#)

Daftar Penelitian Hibah Ditlitabmas Dosen Universitas Esa Unggul

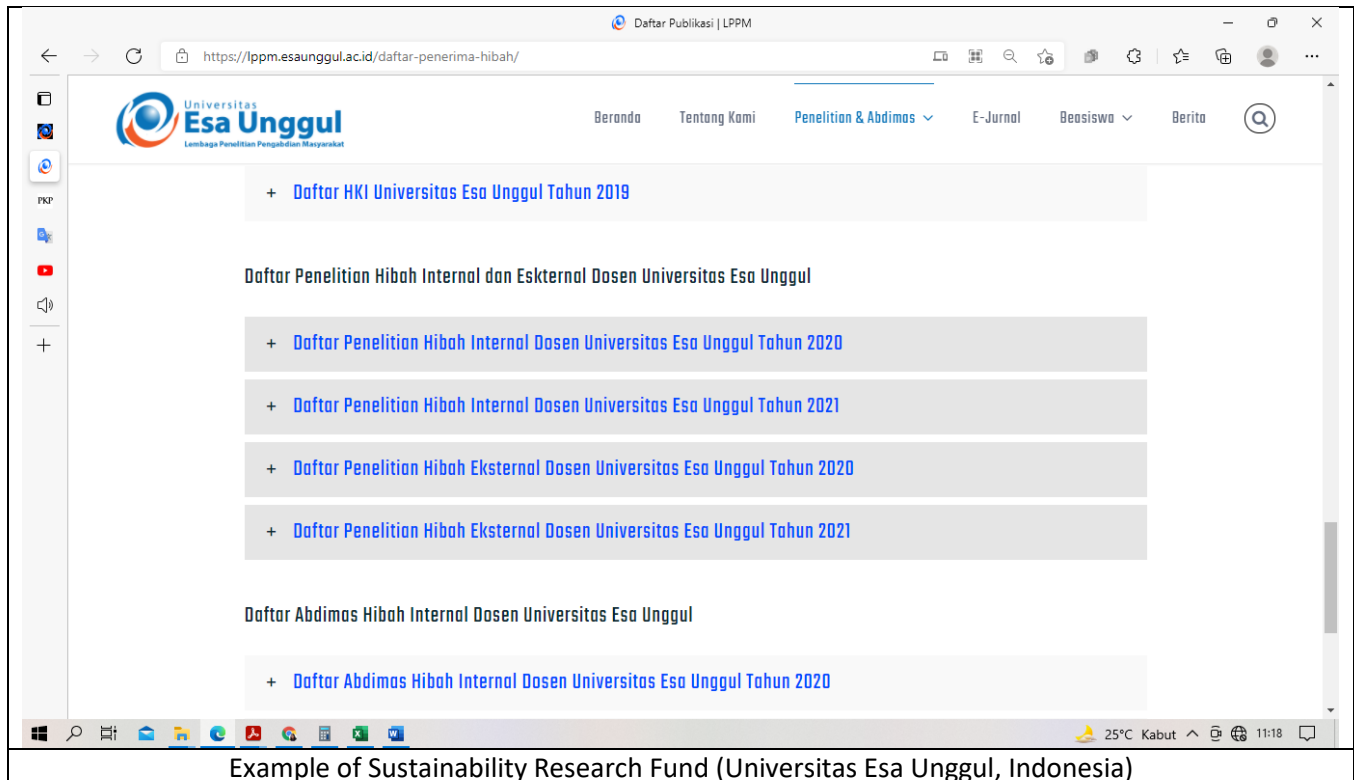
+ [Daftar Penelitian Hibah Ditlitabmas Dosen Universitas Esa Unggul 2016](#)

+ [Daftar Penelitian Hibah Ditlitabmas Dosen Universitas Esa Unggul 2017](#)

+ [Daftar Penelitian Hibah Ditlitabmas Dosen Universitas Esa Unggul 2018](#)

+ [Daftar Penelitian Hibah Ditlitabmas Dosen Universitas Esa Unggul 2019](#)

https://lppm.esaunggul.ac.id/daftar-penerima-hibah/#9b1f425b7b14fe86c



The screenshot shows a web browser displaying the 'Daftar Publikasi | LPPM' page on the Universitas Esa Unggul website. The URL is <https://lppm.esaunggul.ac.id/daftar-penerima-hibah/>. The page features a navigation menu with 'Beranda', 'Tentang Kami', 'Penelitian & Abdimas', 'E-Jurnal', 'Beasiswa', and 'Berita'. The main content area lists several grant categories with expandable links:

- + Daftar HKI Universitas Esa Unggul Tahun 2019
- Daftar Penelitian Hibah Internal dan Eksternal Dosen Universitas Esa Unggul
 - + Daftar Penelitian Hibah Internal Dosen Universitas Esa Unggul Tahun 2020
 - + Daftar Penelitian Hibah Internal Dosen Universitas Esa Unggul Tahun 2021
 - + Daftar Penelitian Hibah Eksternal Dosen Universitas Esa Unggul Tahun 2020
 - + Daftar Penelitian Hibah Eksternal Dosen Universitas Esa Unggul Tahun 2021
- Daftar Abdimas Hibah Internal Dosen Universitas Esa Unggul
 - + Daftar Abdimas Hibah Internal Dosen Universitas Esa Unggul Tahun 2020

The browser's taskbar at the bottom shows the system tray with a temperature of 25°C, 'Kabut' weather, and the time 11:18.

Example of Sustainability Research Fund (Universitas Esa Unggul, Indonesia)

Description:

Total research fund dedicated to sustainability research in 2019 = 286,200.44 US Dollars

Total research fund dedicated to sustainability research in 2020 = 212,516.45 US Dollars

Total research fund dedicated to sustainability research in 2021 = 485.587,11 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 328.101,333 US Dollars

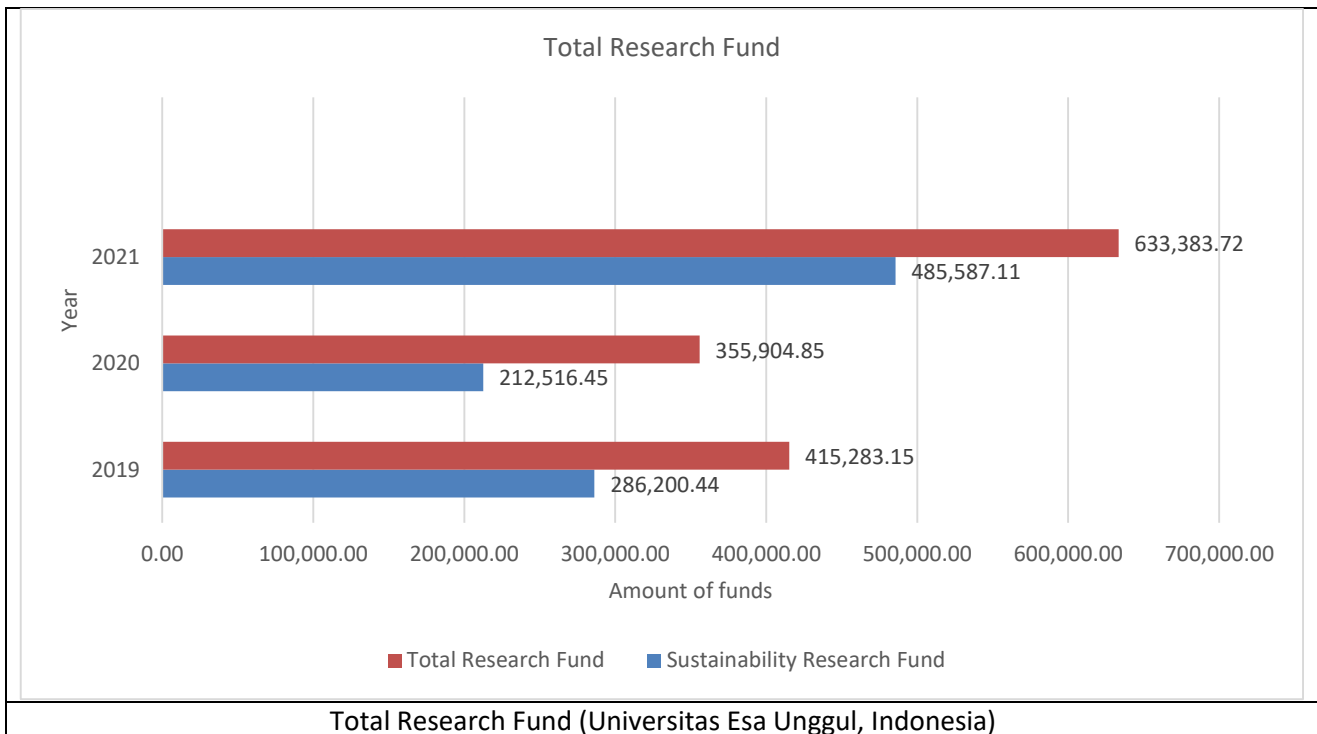
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Picture 1, 2 and 3 : <https://lppm.esaunggul.ac.id/daftar-penerima-hibah/>

Data penelitian terkait sustainability :

https://docs.google.com/spreadsheets/d/1bCViLmfZlc4yw4Ir_RtTilIW5MacahcV/edit?usp=sharing&oid=113355796815171952876&rtpof=true&sd=true

Total Research Funds (in US Dollars)



Description:

Total research fund in 2019 = 415.283,15 US Dollars

Total research fund in 2020 = 355.904,85 US Dollars

Total research fund in 2021 = 633.383,72 US Dollars

The averaged annum last 3 years of research fund = 468.190,573 US Dollars

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

Evidence in 2019 :

<https://docs.google.com/spreadsheets/d/1lhUZlwSm1aIX2xjnSHXrMqKVrntVkw3F/edit?usp=sharing&oid=113355796815171952876&rtpof=true&sd=true>

Evidence in 2020 :

https://docs.google.com/spreadsheets/d/1q5z_TaACcda2phPX0vMJU2KSh40h9Sx0/edit?usp=sharing&oid=113355796815171952876&rtpof=true&sd=true

https://docs.google.com/spreadsheets/d/1CQha_VYiD6bPxJTngdvFMaMiL-RDf8tL/edit?usp=sharing&oid=113355796815171952876&rtpof=true&sd=true

Evidence 2021 :

<https://docs.google.com/spreadsheets/d/1AwO96PuPZKLLrX5d05wDyIAOa0BWTjHm/edit?usp=sharing&oid=113355796815171952876&rtpof=true&sd=true>

Number of scholarly publications on sustainability

Google Scholar search results for "esa unggul & waste".

Search query: `esa unggul & waste`

Results: About 695 results (0.04 sec)

Filters: Any time, Since 2022, Since 2021, Since 2018, Custom range... (2019 - 2022)

Sort by: relevance, Sort by date

Any type, Review articles, include patents, include citations, Create alert

Articles:

- [PDF] Increasing ecoliteracy on the impact of organic **waste** management using a problem a problem-solving the model [PDF] esaunggul.ac.id
 H.Syofyan, R.Rachmadtullah - International Journal of ..., 2019 - digitlib esaunggul.ac.id
 ... This study aims to improve the ecoliteracy of elementary school Teacher Study Program students at the Universitas Esa Unggul towards the impact of organic **waste** management using ...
 ☆ Save 📄 Cite Cited by 6 Related articles
- Aktualisasi Diet Limbah (Sampah) Padat [PDF] abdidas.org
 V.Azteria, DA.Kusumaningtyar, A.Irfandi, E.Veronika... - Jurnal Abdidas, 2021 - abdidas.org
 ... **waste** is still not managed properly and properly. The purpose of holding this webinar is to socialize the **waste** diet efforts to reduce the amount of **waste** ... dosen Universitas Esa Unggul, ...
 ☆ Save 📄 Cite Cited by 2 Related articles All 2 versions 🔄
- The Role of Make Up Character in the Performance of JJ City **Waste** by Theatre Koma [PDF] heos.asia
 SDK Purba, E Anom - Higher Education and Oriental Studies, 2021 - heos.asia
 This research analyses "The Role of Make Up Character in JJ Sampah-Sampah Kota Performance by Teater Koma". Make-up character is make-up that is applied to change a person's ...
 ☆ Save 📄 Cite Related articles All 3 versions 🔄
- [PDF] THE READINESS OF DIGITAL LITERACY ON GPA THE FIFTH STUDENTS AT ESA UNGGUL UNIVERSITY [PDF] esaunggul.ac.id
 PI Zakiah, S Eisynta, Z Salsabila - Seminar Nasional Ilmu ..., 2021 - prosiding.esaunggul.ac.id
 ... Esa Unggul University students' GPA. This study is a qualitative study using a questionnaire research method. The questionnaire will be filled in by respondents at Esa Unggul ... to **waste** ...
 ☆ Save 📄 Cite Related articles 🔄
- [PDF] Implementation of data mining on glasses sales using the apriori algorithm [PDF] esaunggul.ac.id
 R.Fidestama, AS.Dist... - International Journal of ..., 2021 - digitlib esaunggul.ac.id

1

Google Scholar search results for "esa unggul & waste & sustainability".

Search query: `esa unggul & waste & sustainability`

Results: About 488 results (0.10 sec)

Filters: Any time, Since 2022, Since 2021, Since 2018, Custom range... (2019 - 2022)

Sort by: relevance, Sort by date

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Articles:

- [PDF] Increasing ecoliteracy on the impact of organic **waste** management using a problem a problem-solving the model [PDF] esaunggul.ac.id
 H.Syofyan, R.Rachmadtullah - International Journal of ..., 2019 - digitlib esaunggul.ac.id
 ... Ecoliteracy or **environmental** literacy is the ability or high ... at the Universitas Esa Unggul towards the impact of organic **waste** ... The **environmental** crisis and **environmental** problems that ...
 ☆ Save 📄 Cite Cited by 6 Related articles
- Model Media Edukasi untuk Meningkatkan Pengetahuan Food Loss and **Waste** (FLW) Behavior pada Ibu Rumah Tangga selama Pandemi Covid-19 [PDF] esaunggul.ac.id
 PD.Swamileksita, H.Harna... - Jurnal ..., 2022 - jurnal.globalhealthsciencegroup...
 Kondisi pandemi Covid-19 mempengaruhi pangan Indonesia, dimana terjadi peningkatan kebutuhan pangan akibat masyarakat dianjurkan untuk dirumah saja. Selain itu, akses ...
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- [HTML] The construct of community empowerment through social compass strategy: Case study of empowerment in processing **waste** and water hyacinth [HTML] mindamas.com
 AS.Akhyadi, IS.Sadikin - EDUCARE, 2020 - journals.mindamas.com
 ... Heterogeneous **environmental** conditions become consideration in implementing empowerment strategies for communities. Empowerment strategy becomes the main capital to attract ...
 ☆ Save 📄 Cite Cited by 7 Related articles All 3 versions 🔄
- Pemberdayaan masyarakat berkelanjutan dengan pengelolaan sampah organik rumah tangga [PDF] unimerz.com
 DA.Kusumaningtyar, G.Vionaita... - Piramida: Jurnal ..., 2022 - journal.unimerz.com
 ... **Waste** is still a very complex problem. The increasing population is directly proportional to the increasing **waste** ... in processing household **waste** in a **sustainable** manner so that it is not ...
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- Determination of Factory Location PT. Kelopa Lingkungan Kita Using Factor [PDF] kemalupublisher.com

2

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scholar.google.com/scholar?hl=en&as_sdt=0%2C5&as_ylo=2019&as_yhi=2022&q=universitas+esa+unggul+%26+air+%26+sustainability&btnG=

Google Scholar universitas esa unggul & air & sustainability

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Air pollution changes of Jakarta, Banten, and West Java, Indonesia during the first month of COVID-19 pandemic [PDF] koreascience.or.kr
S PRAMANA, DY PARAMARTHA... - Asian Journal of ..., 2020 - koreascience.or.kr
... Purpose: This research aims to explore the level of air ... US Environmental Protection Agency (EPA), on the other hand, established six criteria of air pollutants for the National Ambient Air ...
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PENGARUH EKUITAS MEREK TERHADAP NIAT BELI PADA PRODUK MINUMAN ISOTONIK MIZONE (STUDI KASUS DI UNIVERSITAS ESA UNGGUL) [PDF] esaunggul.ac.id
K Leonanda, S Purmana - JCA of Economics and Business, 2020 - jca.esaunggul.ac.id
... menjadi pelopor utama produsen air mineral dalam kemasan, ... sumber mata air sampai distribusi sebagai pelopor air mineral ... air minum dalam kemasan (AMDK) dengan merek "Club", ...
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[PDF] The Study of Green Open Space in Tangerang [PDF] rigeo.org
C Setiawan, E Martini, D Roesaninggit - Review of International ..., 2021 - rigeo.org
... attractiveness of the city and help maintain air cleanliness. RTH can reduce the occurrence ... are more tolerant of air pollution. The most important thing is that green space can provide ...
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[PDF] Accessibility for Physical Disabilities People to engage with Transjakarta Bus (Case Study on Seskoal and Tirtayasa Corridors of South Jakarta) [PDF] rigeo.org
RA Aziz, RA Firdhayanti, W Susanto... - Review of International ..., 2021 - rigeo.org
... and sustainably in the long run; 4. Make time efficient of service users and the general public, with reduced travel time; 5. Reducing air pollution and maintaining environmental health in ...
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[PDF] AIR POLLUTION OF CARBON MONOXIDE: A CASE STUDY ON CITY TRAFFIC JAM [PDF] envirotechjournals.com
DA KUSUMANINGTIAR, G VIONALITA... - envirotechjournals.com
... to the other 4 spots of Air pollution Index where Kelapa Gading ... Based on the data obtained from the Environmental Agency, the ... service institutions Universitas Esa Unggul, Indonesia, ...

3

esa unggul & water - Google Sch x +

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S Purworaharjo, G Firmansyah - Budapest International Research ..., 2022 - bircu-journal.com
... universities to create Spring Water with the Grand Prize US\$ 5,000 starting from 1st April 2021 - 1st November 2021. One of the requirements is the Spring Water can be brought ...
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[PDF] Designing An Automatic Control System Of Water Flow Rate Using Non-Linear Input Variable Of Temperature-Humidity Based On Mobile Application [PDF] esaunggul.ac.id
N Anwar, AM Widodo, R Amirudianto, MB Ullum... - 2021 - digitlib.esaunggul.ac.id
... use in the area, with this system, it is hoped that it can reduce the rate of water use in the ... amount of water needed to water these plants. Due to this, this research refers to a plant water ...
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Emerging Pollutants in Water: A Threat for Sustainable Water Resource.
MLB Salingay, C Zevenbergen... - Current Trends in ..., 2020 - search.ebscohost.com
... the passive sampling method, is necessary to have a reliable water quality assessment. Regular and reliable water quality evaluation is essential to attain a sustainable water resource. ...
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Exploration of React Native Framework in designing a Rule-Based Application for healthy lifestyle education
AH Azizah, SZ Faidah, MB Ulum... - 2021 1st International ..., 2021 - ieeeexplore.ieee.org
... Consuming sufficient mineral water in a day is a form of effort ... states that 78.6% consume less water [5]. Another study by ... as lack of awareness in drinking water, sports activities, lack of ...
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SS Sudarmo, AJ Putr, E Martini, GB Kuswara - Review of International ..., 2021 - rigeo.org
... of existing regulations, because this transfer uses water transportation, the rule used is the depth of the sea in accordance with the water transportation used. Based on the results of the ...
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The Economic Impact of Water Pollution [PDF] ubharajaya.ac.id
SPD Anantadajava, MS Rahmadani, S Zen... & Universitas Esa ..., 2019 - papers.ssrn.com
... All in all, different stakeholders have different concerns about the water treatment pollutions and water pollution and treatment itself various in impact on the environmental, social, and ...
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Design and Evaluation of LoRa-based Mesh Network for Water Metering Infrastructure [PDF] ubharajaya.ac.id
M Achmad Muhazir - 2021 - repository.ubharajaya.ac.id
... are Universitas Pasundan, Universitas Esa Unggul, Universitas Trisakti, Universitas Tarumanagara, Universitas Al... His research has made contributions in green design, ...
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... levies are levies carried out by anyone who utilizes facilities prepared by local governments such as waste water treatment levies. Another form of levies are other levies for the actions ...
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ANALISIS PROGRAM CSR DALAM SUSTAINABILITY REPORT BERDASARKAN GRI STANDARDS [PDF] rigeo.org
A Munandar, E Triyana, R Amin... - Jurnal Ilmiah MEA ..., 2021 - journal.stiemb.ac.id
Penelitian dilakukan untuk mengetahui pengungkapan program CSR dalam sustainability report perusahaan sub industri konstruksi bangunan. Pengungkapan tersebut berpedoman ...
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[PDF] Triple Bottom Model Towards Sustainability Report [PDF] rigeo.org
A Putra, R Suliaty, Q Sinaga - Review of International Geographical ..., 2021 - rigeo.org
... line has not fully influenced the sustainability report in accordance with the concept put ... sustainability report reporting, while the planet does not significantly influence the sustainability ...
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[PDF] PERSEPSI DOSEN FKIP UNIVERSITAS ESA UNGGUL TERHADAP PROGRAM MERDEKA BELAJAR KAMPUS MERDEKA [PDF] esaunggul.ac.id
OF Nugroho - digitlib.esaunggul.ac.id
... The participants in this study were all lecturers from Universitas Esa Unggul's Fakultas Keguruan dan Ilmu Pendidikan. Because the number of lecturers whose data was collected is ...
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[PDF] PERSEPSI DOSEN PENDIDIKAN BAHASA INGGRIS FKIP UNIVERSITAS ESA UNGGUL TERHADAP PROGRAM MERDEKA BELAJAR KAMPUS MERDEKA [PDF] esaunggul.ac.id

6

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N Anwar, AKA Praja, H Akbar ... - Science and Artificial ..., 2021 - ieeexplore.ieee.org
... We thank you for your motivation and support to the Rector of **Esa Unggul University** and all other parties who cannot be named individually for their cooperation and assistance. ...
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The Effect of Transaction Experience Using Digital Wallets on User Satisfaction in Millennial Generation [PDF] ilearning.co
S Purnama, CS Bangun, SA Faaroek - Aptisi Transactions on ..., 2021 - ijc.ilearning.co
... such as fast food delivery, **transportation** and shopping is ... In the online **transportation** ordering and online food delivery ... as a Grab service (for online **transportation**) and GrabFood (for ...
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E-payment for Jakarta Smart Public **Transportation**, Using the Point System for E-Commerce [PDF] iop.org
N Anwar, R Rasjidin, DS Najoan ... - Journal of Physics ..., 2020 - iopscience.iop.org
... public **transportation**. This research focuses on how people can be satisfied with the services and system of public **transportation** if there is a system in public **transportation** payment that ...
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Design of Motorcycle Parking Management for Optimizing Queuing System at Exit Gate (Case Study: **Esa Unggul University**) [PDF] eudl.eu
MD Amperajaya, T Rachman, LI Natalia, A Suwandi - 2020 - eprints.eudl.eu
... ratings to service provider, Secure Parking and the University of **Esa Unggul** as the owner. ... the exit gate in the University of **Esa Unggul** periodically. Therefore this research is analyzing

7

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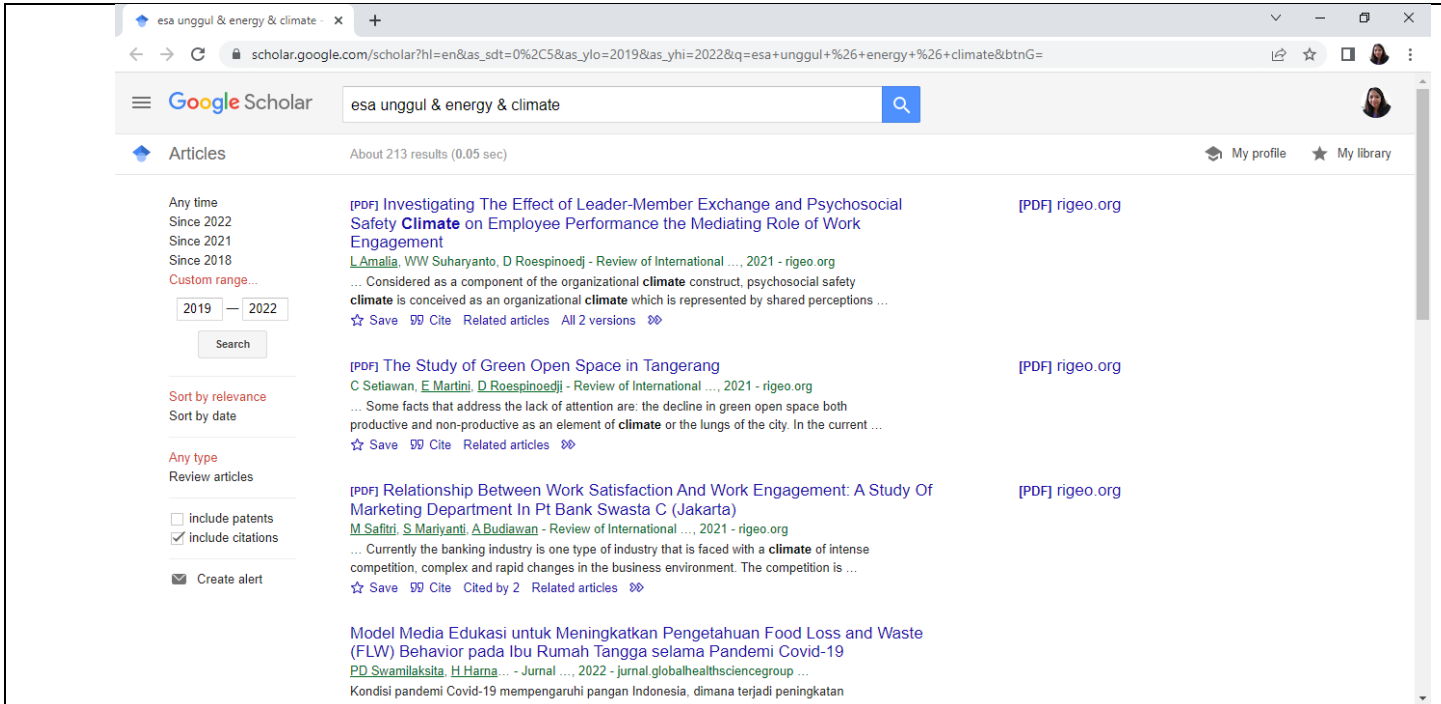
[PDF] Analysis of Interconnectivity in the Scout Island Cluster for **Sustainability** of Marine Tourism Based On Ecotourism [PDF] rigeo.org
SS Sudarmo, AJ Putr, E Martini, GB Kuswara - Review of International ..., 2021 - rigeo.org
... of existing regulations, because this transfer uses water **transportation**, the rule used is the depth of the sea in accordance with the water **transportation** used. Based on the results of the ...
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Impacts of inter-urban **transportation** railway to regional development (Case study: Sukaraja District-Bogor Regency-West Java Province) [PDF] iop.org
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... railway becomes the chosen mass **transportation** mode by the ... of **transportation**. This study aimed to understand the development surrounding Jakarta – Bogor Inter-urban **transportation** ...
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N Anwar, R Rasjidin, DS Najoan ... - Journal of Physics ..., 2020 - iopscience.iop.org
... public **transportation**. This research focuses on how people can be satisfied with the services and system of public **transportation** if there is a system in public **transportation** payment that ...
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[PDF] The Concept of Indonesia's Aerotropolis Development in West Java Kertajati [PDF] rigeo.org
AJ Putr, DL Cahya, F Mulyawan - Review of International Geographical ..., 2021 - rigeo.org
... conditions, intra and intermodal **transport** integration, **environmental sustainability**, safety and aviation security and integration with other development sectors. The national airport ...

8



esa unggul & energy & climate - x +

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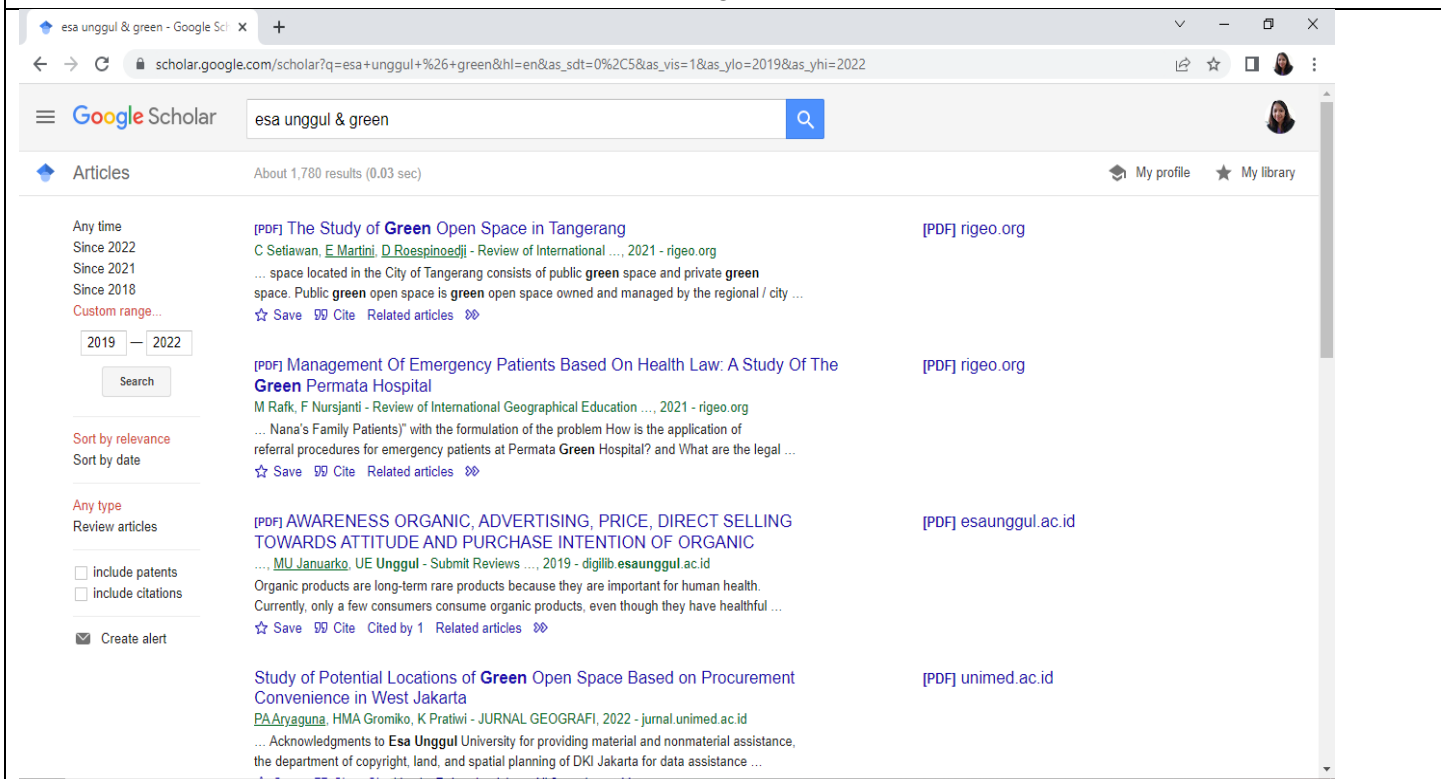
[PDF] Investigating The Effect of Leader-Member Exchange and Psychosocial Safety **Climate** on Employee Performance The Mediating Role of Work Engagement [PDF] rigeo.org
L Amalia, WW Suharyanto, D Roespoedj - Review of International ..., 2021 - rigeo.org
... Considered as a component of the organizational **climate** construct, psychosocial safety **climate** is conceived as an organizational **climate** which is represented by shared perceptions ...
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C Setiawan, E Martini, D Roespoedji - Review of International ..., 2021 - rigeo.org
... Some facts that address the lack of attention are: the decline in green open space both productive and non-productive as an element of **climate** or the lungs of the city. In the current ...
☆ Save ⓘ Cite Related articles ⓘ

[PDF] Relationship Between Work Satisfaction And Work Engagement: A Study Of Marketing Department In Pt Bank Swasta C (Jakarta) [PDF] rigeo.org
M Safitri, S Mariyanti, A Budjawan - Review of International ..., 2021 - rigeo.org
... Currently the banking industry is one type of industry that is faced with a **climate** of intense competition, complex and rapid changes in the business environment. The competition is ...
☆ Save ⓘ Cite Cited by 2 Related articles ⓘ

Model Media Edukasi untuk Meningkatkan Pengetahuan Food Loss and Waste (FLW) Behavior pada Ibu Rumah Tangga selama Pandemi Covid-19 [PDF] rigeo.org
PD Swamilaksita, H Harna - Jurnal ..., 2022 - jurnal.globalhealthsciencegroup ...
Kondisi pandemi Covid-19 mempengaruhi pangan Indonesia, dimana terjadi peningkatan ...

9



esa unggul & green - Google Sch x +

scholar.google.com/scholar?q=esa+unggul+%26+green&hl=en&as_sdt=0%2C5&as_vis=1&as_ylo=2019&as_yhi=2022

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[PDF] The Study of **Green** Open Space in Tangerang [PDF] rigeo.org
C Setiawan, E Martini, D Roespoedji - Review of International ..., 2021 - rigeo.org
... space located in the City of Tangerang consists of public **green** space and private **green** space. Public **green** open space is **green** open space owned and managed by the regional / city ...
☆ Save ⓘ Cite Related articles ⓘ

[PDF] Management Of Emergency Patients Based On Health Law: A Study Of The **Green** Permata Hospital [PDF] rigeo.org
M Rafk, F Nursjanti - Review of International Geographical Education ..., 2021 - rigeo.org
... Nana's Family Patients)" with the formulation of the problem How is the application of referral procedures for emergency patients at Permata **Green** Hospital? and What are the legal ...
☆ Save ⓘ Cite Related articles ⓘ

[PDF] AWARENESS ORGANIC, ADVERTISING, PRICE, DIRECT SELLING TOWARDS ATTITUDE AND PURCHASE INTENTION OF ORGANIC [PDF] esaunggul.ac.id
MU Januarko, UE Unggul - Submit Reviews ..., 2019 - digilib.esaunggul.ac.id
Organic products are long-term rare products because they are important for human health. Currently, only a few consumers consume organic products, even though they have healthful ...
☆ Save ⓘ Cite Cited by 1 Related articles ⓘ

Study of Potential Locations of **Green** Open Space Based on Procurement Convenience in West Jakarta [PDF] unimed.ac.id
PA Aryaguna, HMA Gromiko, K Pratiwi - JURNAL GEOGRAFI, 2022 - jurnal.unimed.ac.id
... Acknowledgments to **Esa Unggul** University for providing material and nonmaterial assistance, the department of copyright, land, and spatial planning of DKI Jakarta for data assistance ...

10

Example of Publication Related To Sustainability (Esa Unggul University , Indonesia)

Description:

Esa Unggul University supports research to analyze the causes of problems related to sustainability and the environment to achieve sustainable development goals (SGS). Lecturers and students then publish the results of these activities. They published their articles in international journals, accredited national journals, and unaccredited national journals. In addition, they attend conferences, present orally or through posters. Details of publications during the 2019-2021 academic year include:

2019 : 78 publications

2020 : 119 publications

2021 : 175 publications

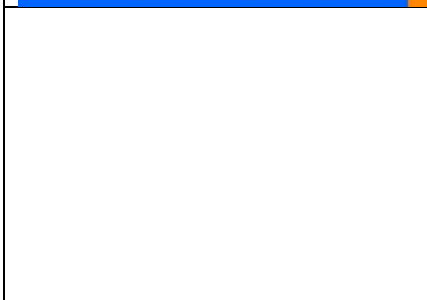
Number of scholarly publications on sustainability annually over the last 3 years : 372 publications

In addition, In 2021, UEU has 50 copyrights, while in 2020 it has 44 copyrights. The copyright is the result of research in the form of books, models and applications.

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

Publikasi jurnal :

<https://drive.google.com/drive/folders/1GdEoZhH8g7sTJkSlrKKhDcQOOfDeuOV?usp=sharing>



Examples of Events Related to Sustainability (Universitas Esa Unggul, Indonesia)

Description:

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

The following is the number of activities related to the environment and sustainability organized by Esa Unggul University in 2019-2021

2019: 71 events

2020: 72 events

2021: 82 events

total average per annum over the last 3 years of **75 events**. The events are 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):

2019 : <https://drive.google.com/drive/folders/1t-zsAQIxCrZf5xotPQbYqwOJdLuUITx?usp=sharing>

2020 : <https://drive.google.com/drive/folders/1t-zsAQIxCrZf5xotPQbYqwOJdLuUITx?usp=sharing>

2021 : <https://drive.google.com/drive/folders/1t-zsAQIxCrZf5xotPQbYqwOJdLuUITx?usp=sharing>

Number of student organizations related to sustainability

<p>Nature Lover Student Association</p> 	<p>Nature Lover Student Association is an organization that focuses on devoting itself and developing knowledge based on university values in the fields of education, research, and community and environmental service.</p>
<p>Indonesian Red Cross Volunteer Corps-Esa Unggul University</p>	<p>Indonesian Red Cross Volunteer Corps-Esa Unggul University is domiciled in West Jakarta under the guidance of the Indonesian Red Cross in West Jakarta City. It is under the patronage of the Chairperson of the Indonesian Red Cross Board of West Jakarta City and the Chancellor of Esa Unggul University. As well as being in the construction of Ka. Sie HR Volunteer PMI West Jakarta City</p>
<p>The Ministry of Social and Environmental Affairs (BEMU)</p>	<p>The Ministry of Social and Environmental Affairs is a division under the Student Executive Board of Esa Unggul University. The Ministry of Social and Environment functions to organize and oversee social and environmental affairs. Their programs, including a) Webinars with the theme of Growing Hydroponics b) Webinars with the theme of Mental Health c) Implementing Non-Plastic Usage in Campus Area d) Making a Flower Corner at One Point of the Campus e) Social Service</p>
<p>The Ministry of Arts and Culture (BEMU)</p>	<p>The Ministry of Arts and Culture functions as a means and forum for developing interests, talents, and potentials related to arts and culture.</p>
<p>The Ministry of Independence and Entrepreneurship (BEMU)</p>	<p>The Ministry of Independence and Entrepreneurship (Kemenkwu) is a creative and innovative ability that is used as the basis, and a resource for seeking opportunities for success. The Ministry of Independence and Entrepreneurship also functions as a means and a forum for developing interests, talents, and potential in the field of entrepreneurship or as a forum for student aspirations in doing business/entrepreneurship to develop their business. Their programs including training workshops on entrepreneurship, Success Motivation Podcasts and holding Cooperatives</p>
<p>The Ministry of Strategic Studies and Action (BEMU)</p>	<p>The ministry that is concerned with the problems of the campus environment, society and the nation in general, conducts studies and attitudes towards campus and public policies that will be, are currently, or have been established, establish good relations with elements of society and student institutions within Esa Unggul</p>
<p>The Ministry of Youth and Sports (BEMU)</p>	<p>The Ministry of Youth and Sports is a ministry within the Student Executive Board of Esa Unggul University which is in charge of affairs and oversees Sports SMEs, as well as matters relating to the competitive scene both internally and externally.</p>
<p>UKM Traditional Dance</p>	<p>Tatra student community was formed by the Department of Arts and Culture of the UEU BEM in collaboration with students from the physiotherapy faculty and has been active since March 21, 2015 until now.</p>
<p>Major student association</p>	<p>Major Student Association is a student organization at the department or study program level that are like extracurricular activities. Here, students are also forged mental and leadership, and invite them to apply their knowledge to achieve sustainable development goals</p>
<p>UKM Sepakbola – Futsal</p>	<p>Football student community is a community activity unit in the field of</p>

	sports that provides opportunities for youth to preserve football and futsal. In addition, this UKM will find talented members who become representatives to participate in various competitions and make the nation's name proud. The bonus is that members stay healthy and fit
UKM Basket	Basket student community is a community activity unit in the field of sports that provides opportunities for youth to preserve football and futsal. In addition, this UKM will find talented members who become representatives to participate in various competitions and make the nation's name proud. The bonus is that members stay healthy and fit
UKM Badminton	Badminton student community is a community activity unit in the field of sports that provides opportunities for youth to preserve football and futsal. In addition, this UKM will find talented members who become representatives to participate in various competitions and make the nation's name proud. The bonus is that members stay healthy and fit
UKM Taekwondo	Taekwondo student community is a community activity unit in the field of sports that provides opportunities for youth to preserve football and futsal. In addition, this UKM will find talented members who become representatives to participate in various competitions and make the nation's name proud. The bonus is that members stay healthy and fit

Description:

Nature Lover Student Association

On August 14-15 2021, the Nature Lovers Student Association (HIMPALA) of Esa Unggul University (UEU) held a community service activity at the Taqlimul Qur'an Islamic boarding school in Muara 1 Village, Cibunian Village, Bogor. The theme of this activity, Jodi continued, is "Love of Nature and Compassion for Others." On this occasion, HIMPALA provided assistance in the form of stationery, Al-Qur'an, basic necessities, goldfish seeds and compensation for orphans. (Link : <https://www.esaunggul.ac.id/meriahkan-hut-ri-ke-76-himpala-ueu-gelar-pengabdian-masyarakat/>)



Foto group Indonesian Red Cross Volunteer Corps-Esa Unggul University

Webinar

UEU PSR held a Webinar with the theme: "Community Perspectives on Stress and Prevention Efforts in Managing Stress" on November 1, 2021, at 13.00 WIB – finished via Zoom Meeting. This activity aims to help people manage the stress they face, especially during the COVID-19 pandemic. (Link : https://www.instagram.com/p/CH1OnQgA26T/?utm_source=ig_web_copy_link). In addition,

the UEU PSR also held a webinar on blood donation, with the theme Dare to Donate Blood in a Pandemic Period held on January 24, 2021. This activity aims to motivate participants to donate blood to help people in need during a pandemic. (Link : https://www.instagram.com/p/CKLTHZWA3Uf/?utm_source=ig_web_copy_link)

Evacuation of the Sriwijaya Airplane crash

Members of the KSR PMI Unit of the Esa Unggul University took part in the task and participated in the evacuation process of the Sriwijaya Air SJ 182 crash on January 10 and 12, 2021. KSR as a humanitarian volunteer, was also present as a medical team and coordinated with other related parties as part of the implementation of humanitarian duty. (Link : https://www.instagram.com/p/CKEZ2b-A9T/?utm_source=ig_web_copy_link)

Tanggap Darurat Banjir

Members of the KSR PMI Unit of Esa Unggul University participated in the Flood Disaster Emergency Response in the West Jakarta area. (Link : https://www.instagram.com/p/CLq1UalA7Ps/?utm_source=ig_web_copy_link)

KSR PMI



Unit Universitas Esa Unggul



24. 02. 2021

Tanggap Darurat Banjir



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✉ ksr.pmiueu@gmail.com
☎ 085156548469

KSR PMI



Unit Universitas Esa Unggul



24. 02. 2021

Tanggap Darurat Banjir



@ksresaunggul

✉ ksr.pmiueu@gmail.com
☎ 085156548469

Fire Emergency Response in Tanjung Duren

On April 18, 2021, the KSR PMI Unit of the Esa Unggul University contributed to the West Jakarta City PMI in the Emergency Response to Fire Disasters. (Link : https://www.instagram.com/p/COFJ015AjqG/?utm_source=ig_web_copy_link)

KSR PMI



Unit Universitas Esa Unggul



18.4.2021

Tanggap Darurat Bencana Kebakaran



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☎ 085156548469

KSR PMI



Unit Universitas Esa Unggul



18.4.2021

Tanggap Darurat Bencana Kebakaran



@ksresaunggul

✉ ksr.pmiueu@gmail.com
☎ 085156548469

Community Service



On March 26, 2022, the KSR-PMI Unit of Esa Unggul University participated in the Public Kitchen (DU) activity and the Psychosocial Support Program (PSP) assistance for fire victims. <https://www.instagram.com/p/CbjkhGLr2gS/?igshid=YmMyMTA2M2Y=> . On June 25, 2022, the EUU PMI KSR conducted Blood Donation and Medical Check Up activities at the Al-Isra Grand Mosque.. Link dokumentasi kegiatan : <https://www.instagram.com/p/CfQjbMGLJqR/?igshid=YmMyMTA2M2Y=>

On April 30, 2021, the KSR PMI Unit of Esa Unggul University has carried out Community Service on Education on Clean and Healthy Lifestyles and the delivery of hand washing tools and disinfectant equipment.



KSR PMI



Unit Universitas Esa Unggul



30.4.2021

*Pengabdian Masyarakat KSR PMI Unit
Universitas Esa Unggul*



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KSR PMI



Unit Universitas Esa Unggul



30.4.2021

*Pengabdian Masyarakat KSR PMI Unit
Universitas Esa Unggul*



@ksresaunggul

✉ ksr.pmiueu@gmail.com
☎ 085156548469

UEU's KSR Community Service

The Ministry of Social and Environmental Affairs

Social Service Caring for the Cibunian Flash Flood. (<https://bem.esaunggul.ac.id/posts/bakti-sosial-peduli-banjir-bandang-cibunian>)



The Ministry of Arts and Culture

The program of the ministry of arts and culture includes art bulletins, organizing art parties, making Bini BEMU events (UUU BEM Art Talks)

Art Bulletin: Reog Ponorogo Dance
(<https://bem.esaunggul.ac.id/posts/buletin-seni-tari-reog-ponorogo>)

The screenshot shows a news article on the BEM Universitas Esa Unggul website. The article is titled "Reog adalah salah satu kesenian budaya yang berasal dari Jawa Timur" and is dated "Wednesday, 30 December 2020". The main image shows a person in a traditional Reog Ponorogo costume, featuring a large, ornate lion head mask with a red and yellow striped scarf. The article is part of a "PRESS RELEASE" from the "KABINET SODARA" dated 2020/2021.

Art Bulletin: Noken, a Knitting Bag from Papua Recognized by Unesco
(<https://bem.esaunggul.ac.id/posts/buletin-seni-noken-tas-rajut-dari-papua-yang-diakui-unesco>)

The screenshot shows a news article on the BEM Universitas Esa Unggul website. The article is titled "Bahkan noken ditetapkan sebagai sebagai warisan budaya tak benda dari UNESCO pada, 4 Desember 2012 lalu. Noken digolongkan dalam" and is dated "Wednesday, 30 December 2020". The main image shows a colorful, knitted bag (noken) with intricate patterns and designs. The article is part of a "PRESS RELEASE" from the "KABINET SODARA" dated 2020/2021.

Sustainability Report



[1] Setting and Infrastructure (50)

[1.9] Total Area on Campus Covered in Forest Vegetation (meter²)



Area Hijau (Universitas Esa Unggul, Indonesia)

Description:
Total area: 40,487 m² (40% Of total area)
Total distance/circumference: 4.84 km

5. RESULTS DETAIL

Setting and Infrastructure

Indicator	Score
SI.1 The ratio of open space area towards total area	75
SI.2 Area on campus covered in forest	0
SI.3 Area on campus covered in planted vegetation	150
SI.4 Area on campus for water absorbance	50
SI.5 The ratio of open space area divided campus population	220
SI.6 University budgeted for sustainability effort	100

Figure 5.1 Percentage of Score to Maximum Score for Setting and Infrastructure

Energy and Climate Change

Indicator	Score
EC.1 Energy efficient appliances usage	100
EC.2 Smart building program implementation	150
EC.3 Number of renewable energy source in campus	75
EC.4 The total electricity usage divided by total campus population	75
EC.5 The ratio of renewable energy production towards total energy usage per year	50
EC.6 Element of green building implementation	75
EC.7 Greenhouse gas emission reduction program	50
EC.8 The ratio of total carbon footprint divided campus population	75

Figure 5.2 Percentage of Score to Maximum Score for Energy and Climate Change



LAPORAN GREENMETRIC 2021

GREEN CAMPUS
UNIVERSITAS ESA UNGGUL

Examples of sustainability report (Esa Unggul University, Indonesia)

Description:

Complete text of Esa Unggul Sustainability Report 2020 available on this link:

<https://greencampus.esaunggul.ac.id/>

https://drive.google.com/drive/folders/1t19RMtIRnMIUQAoTkeVDyvcDu6eWc_C?usp=share_link

Number of cultural activities on campus (e.g.Cultural Festival)
including virtual activities (if any)



The poster features a scenic background of a mountain range under a sunset sky. At the top left is the Universitas Esa Unggul logo with the text 'Lembaga Bahasa dan Kebudayaan'. The main title 'FESTIVAL BAHASA DAN KEBUDAYAAN 2019' is centered in large, bold, black letters. Below it, the subtitle 'Lomba Cipta dan Baca Puisi' is written in a cursive font on a light green brushstroke. The deadline 'Deadline: 12 Agustus-30 September 2019' is displayed in bold black text. The theme 'Tema: 1. Generasi Milenial & Bahasa, 2. Generasi Milenial & Kebudayaan' is listed on the left. On the right, a red and blue circular graphic contains the text 'Pendaftaran: Rp 25.000/puisi'. Below this, a pink pill-shaped box shows the bank account 'BCA: 6010319909 a.n Esa Unggul'. At the bottom, a pink pill-shaped box contains the registration link 'Link pendaftaran: bit.ly/LCPB2019' and a white pill-shaped box contains the contact information 'Narahubung: NJ (WA): 0877-7282-6467'.

Language and Culture Festival, 2019
(Universitas Esa Unggul, Indonesia)



Sharpening Your Answering Skills, 2020
(Universitas Esa Unggul, Indonesia)

Universitas Esa Unggul
Pusat Bahasa dan Kebudayaan

korean club festival

인도네시아 한국 친구들
Indonesia Korea Friendship Culture

Saturday | February 8th, 2020
KEMALA BALLROOM
Esa Unggul University

항아리 KOREAN CLUB

Free entry & Certificate

Event!
Dance
Sing
Drama
Hambok
Photo Session
etc.

Contact Person:
(0812-8922-5322)
(0822-6191-5854)

Registration Link: bit.ly/KoreanClubFest

**Korean Festival Club, 2020
(Universitas Esa Unggul, Indonesia)**

Universitas Esa Unggul
PUSAT BAHASA DAN KEBUDAYAAN

International Language & Culture Festival

"Virtual Experience and Learning"

OCTOBER 2020

VIA **zoom**

Exploring France
with
DYAH FARIANI, MA
Teacher at Institut Français
Paris, Indonesian
Interpreter and Translator,
UNHR Jakarta.
17 & 31
October 2020
10 - 11.30 AM

Exploring Korea
with
Bung Korea
(Korean Youtuber)

Shim In Lye
(Founder & Teacher of Korean
Hangari Club, Padjadjaran University)

English Conversation
with
Christopher Sherill
(Brooklyn Volunteer)

20 & 22 October 2020 (For all time)
27 & 29 October 2020 (For Indonesia)
9 - 10.30 AM

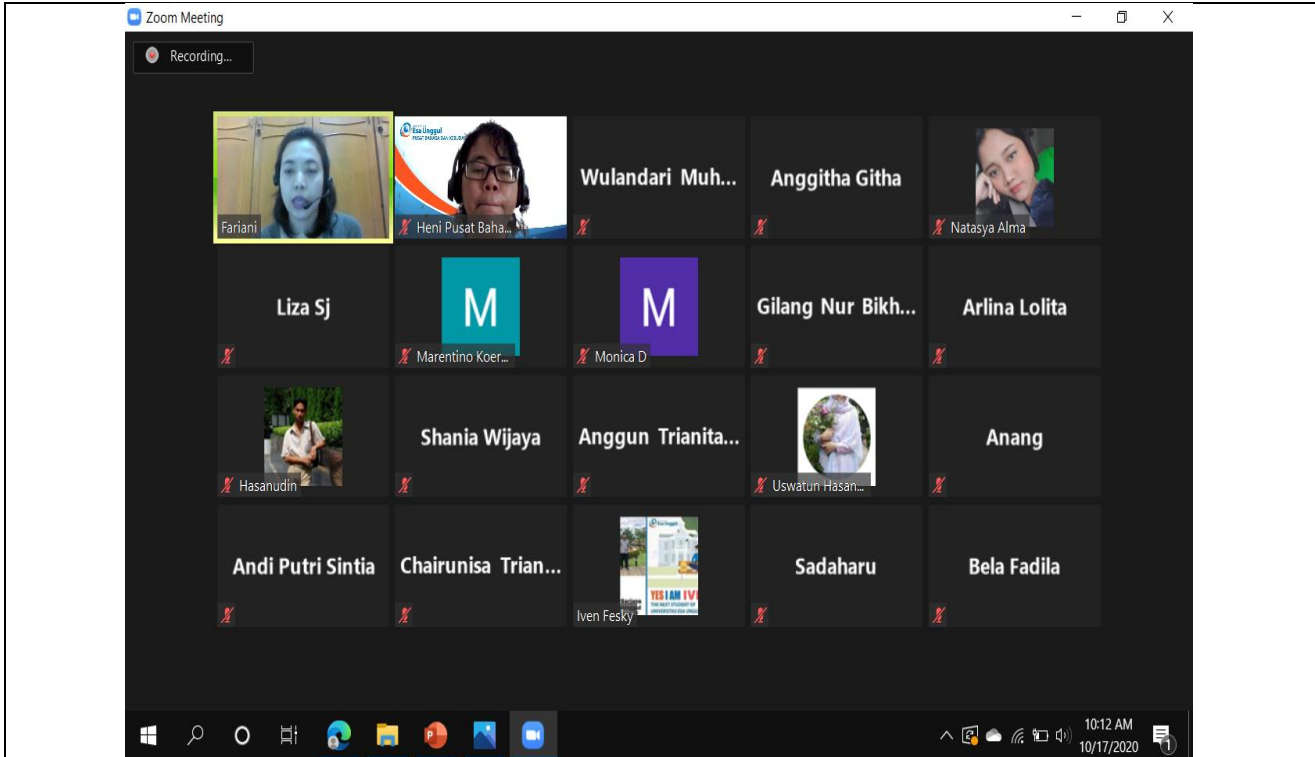
Moderator:
Margaret Sinto UI
(Chairman of Korean Festival Club-Indonesia)

Host/MC:
Dosalina Nugraheni W.P
Head of Center of Language and Culture

Registration:
<https://seminar-web.esaunggul.ac.id>
FREE !!!

23 & 28 October 2020
10 - 11.30 AM

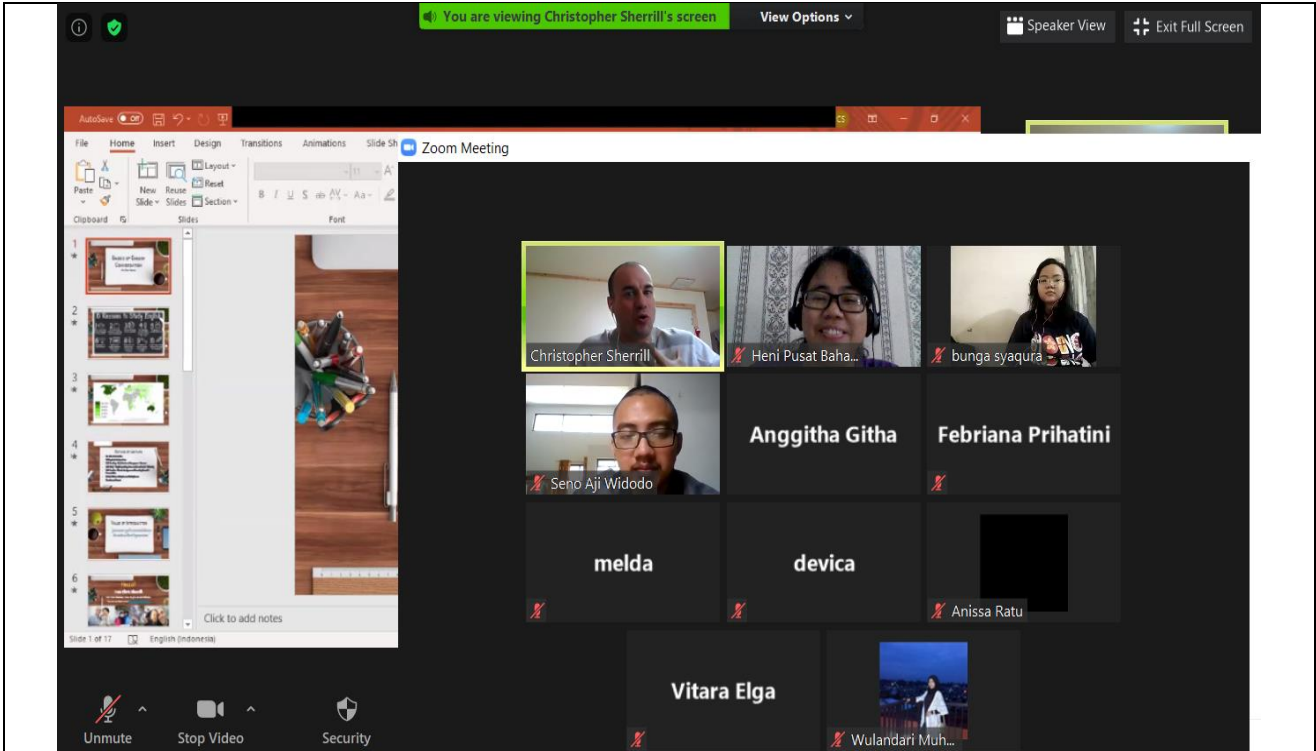
**International Language and Culture Festival, 2020
(Universitas Esa Unggul, Indonesia)**



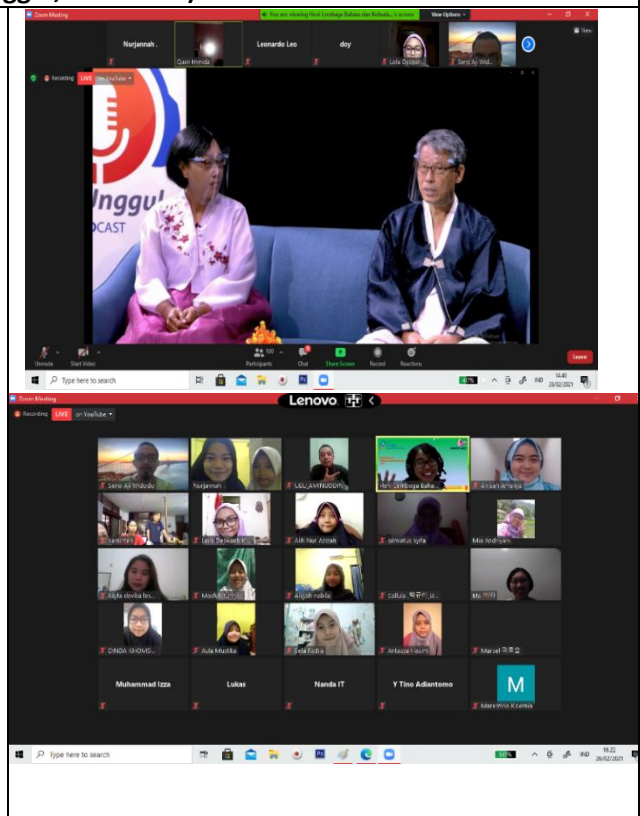
**Exploring France: Language and Culture with France Cultural Center
(Universitas Esa Unggul, Indonesia)**



**Exploring Korea with Bung Korea (Korean YouTuber)
(Universitas Esa Unggul, Indonesia)**



English Conversation with Chris Sherrill (USA) 2021
(Universitas Esa Unggul, Indonesia)



IKOFEST 2021 (Universitas Esa Unggul, Indonesia)



JOIN NOW!!

ESa UNGGUL ENGLISH CLUB

Registration:
bit.ly/EnglishClub_UEU

EVERY TUESDAY @4.30 - 6 PM

Be part of us

CP: 0877-7282-6467

Presented by:
Lembaga Bahasa dan Kebudayaan

Universitas Esa Unggul
Smart, Creative & Entrepreneurial

Lembaga Bahasa dan Kebudayaan

DIBUKA KURSUS BAHASA

BIPA (Bahasa Indonesia untuk Penutur Asing)
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|JERMAN | PERANCIS

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CONTACT US

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0838 9086 5265

www.esaunggul.ac.id

Cultural Activities on Campus (Universitas Esa Unggul, Indonesia)

Description:

In increasing understanding of cultural and linguistic diversity at the local, national and international levels, Esa Unggul University established the Language and Culture Institute. The institution, coordinated by Rosalina Nugraheni W.P., M.Pd, carries out several programs, including good teaching for foreign languages (English, Spanish, French, Italian, Dutch, Arabic, Mandarin, Korean) and local languages: Indonesian and Betawi; Local and International Cultural Festivals; English Club/English Debate Society; Seminars/Workshops and even test centres for TOEFL ITB/TOEIC/IELTS.

Total number of cultural activities on campus organized by the University: 9 events

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

Lembaga Bahasa dan Kebudayaan: <https://www.esaunggul.ac.id/lembaga-bahasa-dan-kebudayaan/>

Korean Festival Club : <https://www.esaunggul.ac.id/korean-club-festival/#>

English Training : <https://www.esaunggul.ac.id/sharpening-your-answering-skills/>

Link Youtube :

[Podcast Esa Unggul Talk #29: : IKOFEST 2021 Annyeong Haseyo - YouTube](#)

[Podcast Esa Unggul Talk #29: IKOFEST 2021 Annyeong Haseyo \(Part 2\) - YouTube](#)

[Korean Club competition 2021 - YouTube](#)

Number of university program(s) to improve teaching and learning

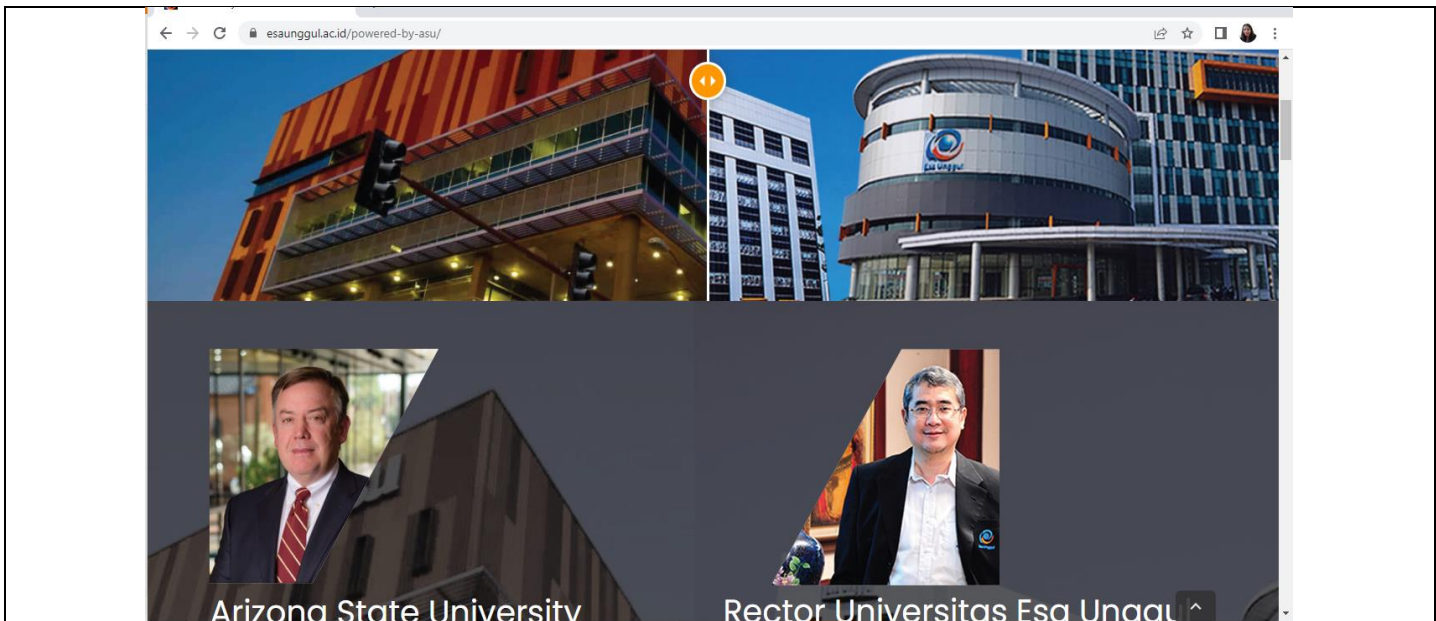


Figure 1. Powered By Arizona State University
(Esa Unggul University, Indonesia)

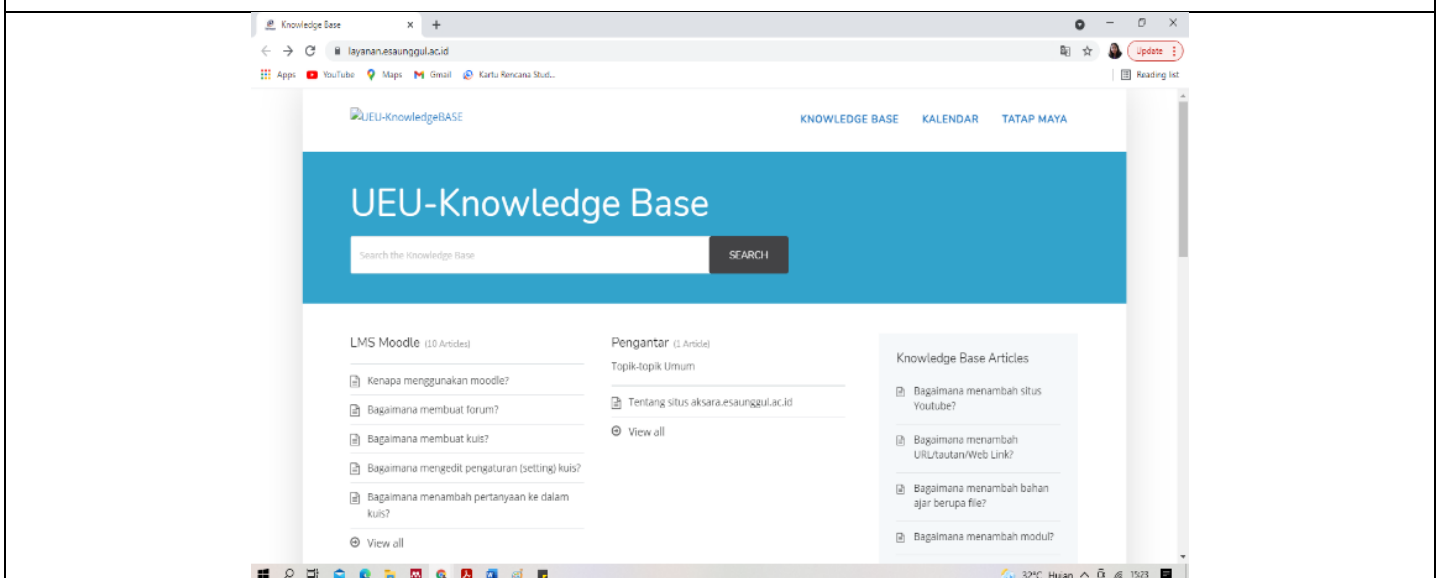


Figure 2. Knowledge Base E-Learning
(Esa Unggul University, Indonesia)

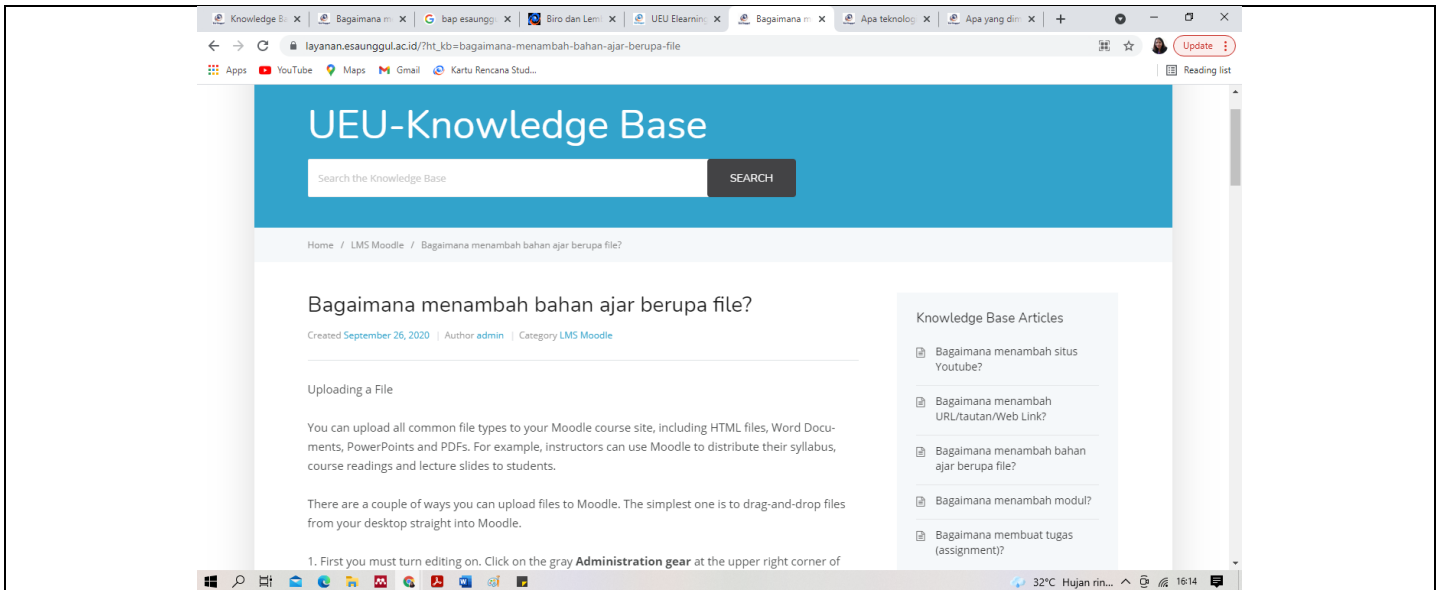


Figure 3. Upload teaching materials on E-Learning
(Esa Unggul University, Indonesia)

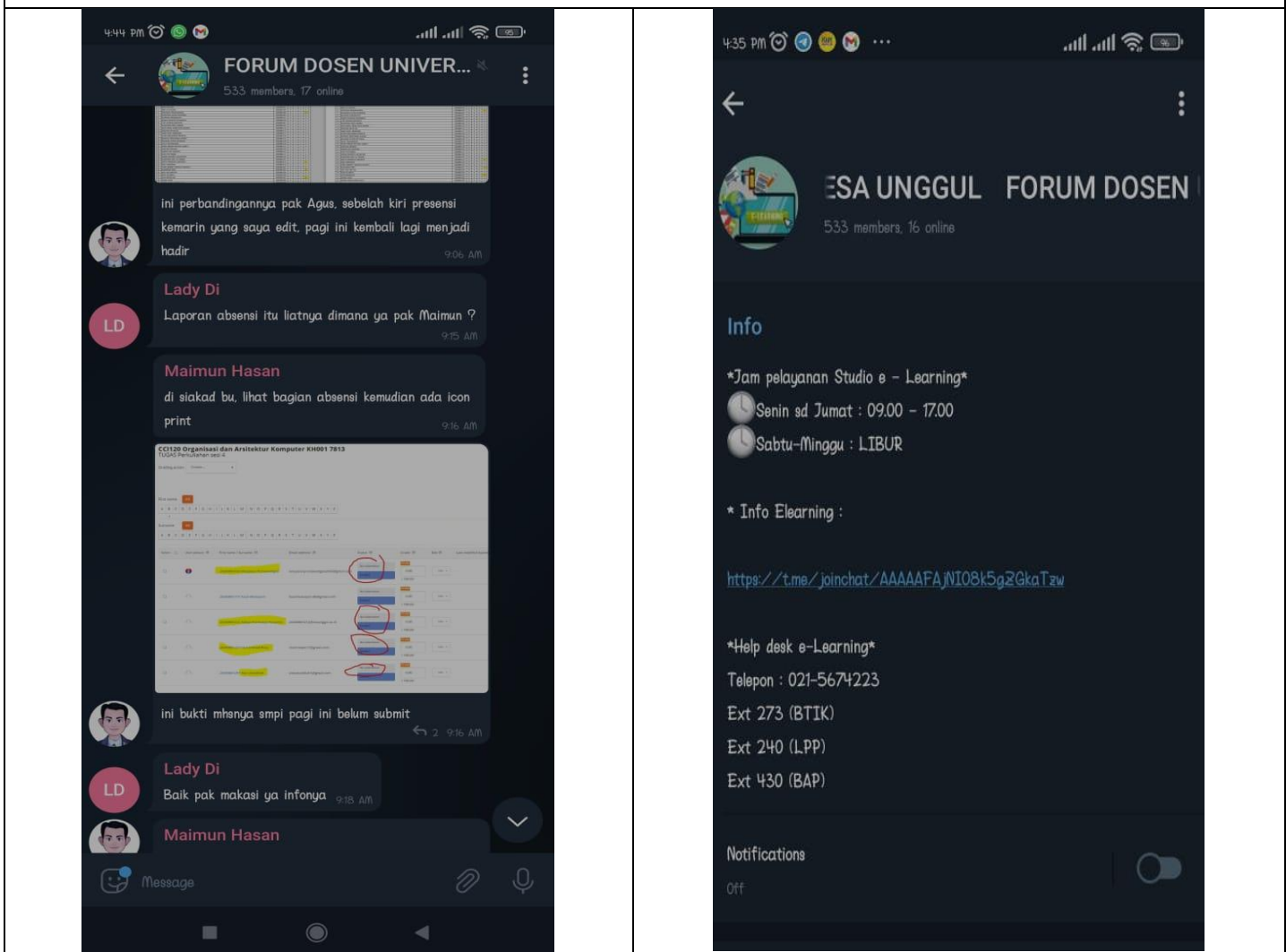


Figure 4. Helpdesk Siacad dan E-Learning
(Esa Unggul University, Indonesia)

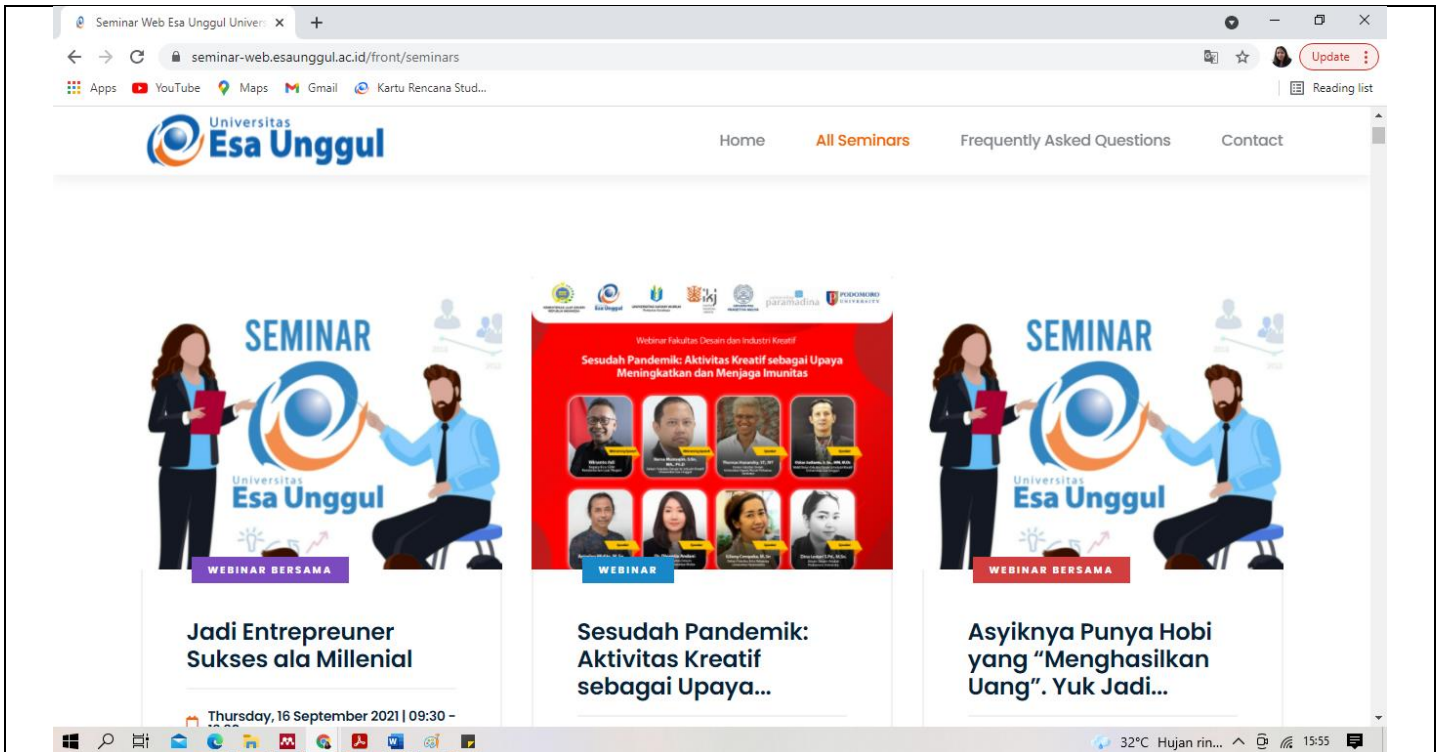


Figure 5 . Video Conference
(Esa Unggul University, Indonesia)



Figure 6 . MoU with KPI
(Esa Unggul University, Indonesia)

Description:

Being powered by Arizona State University

UEU is being Powered by Arizona State University (ASU), which means that the Universitas Esa Unggul community will have access to the following :

1. Access to ASU Content and Curriculum so students will be able to learn a truly international curriculum from a reputable U.S. university without leaving the country
2. Gain International Learning Opportunities through exclusive study abroad and immersion programs in the U.S. or other parts of the world
3. Pathway to a U.S. degree from ASU will enable qualified students to complete part of their studies in Indonesia and then transfer to ASU to finish their degree in person at an ASU campus in the U.S.

4. Experience classes taught by professors from different parts of the world. Students will gain new global perspectives without leaving the country through Global Signature Courses offered by international faculty who will co-teach virtually and learn with coursemates from other foreign universities.
5. Collaborative Projects in research, training and service projects

MBKM

UEU provides opportunities for students to take part in the Student Exchange Program. The purpose of this activity is so that students can take relevant lectures at other universities, both domestically and abroad, in the form of obtaining credit scores, transferring credit, and non-academic activities in the form of extra-curricular activities, including cross-cultural understanding and leadership activities. as long as the criteria have been met. The flow of registration and acceptance is done through <https://monela.esaunggul.ac.id/auth/login>. In 2021, Esa Unggul University sent 59 students to take part in learning opportunities at various universities in Indonesia.

In addition, 11 UEU students participated in the International Student Mobility Awards Program (IISMA) through the independent student exchange program. They studied at various universities worldwide, namely in the United States, Britain, Canada and Europe. A total of 20 other UEU students also had the opportunity to take part in online international student exchanges in the International Credit Transfer (ICT) program, including with Mara Technology University (UiTM) Malaysia and International Islamic University Malaysia (IIUM).

In other MBKM activities, there were 28 students from Esa Unggul University participating in the Internship Program and 18 students participating in the Independent Study Program at several leading institutions and companies in Indonesia. As many as 61 Esa Unggul students had the opportunity to take part in the Teaching Campus program. And in 2022, UEU released its students to participate in the batch 2 independent campus program.

Online Teaching (<https://elearning.esaunggul.ac.id/>)

Before the pandemic, UEU had implemented an online learning system for employee class students. The implementation alternates between face-to-face and e-learning every week. Entering the COVID-19 pandemic, the UEU Chancellor mandated teaching and learning activities at UEU to be carried out virtually starting from the even semester of 2019/2020 until now. This website contains operating manuals and related information (figure 2). This page is updated regularly. On the e-learning page, each course is equipped with modules, journals, assignments, quizzes and discussion forums. Discussions are held virtually through the zoom meeting link or google meet and discussion forums on e-learning according to campus directions. However, sometimes the implementation is more often virtual discussions because these are easier for students to understand.

The output of e-learning is achieved; this can be seen from the evaluation results of lecturers in the teaching and learning process conducted by the Quality Assurance Committee of Esa Unggul University. Evaluation questions include how the lecturer's teaching materials are complete (slides, modules, journals, etc.), the ability of the lecturers to increase student interest in learning during e-learning, communication between lecturers and students, both at the initial meeting explaining the learning system and lecture references, even through discussion forums and lectures—the ability of lecturers in using learning media.

Helpdesk group for E-Learning

Since the COVID-19 pandemic, the learning system implemented at Esa Unggul University is entirely through e-learning so that students can still get a good education even though they have to study from home and can graduate on time with qualified knowledge and skills to the vision of the Esa Unggul university, which is to produce a profile of graduates who are intellectual, creative and entrepreneurial. However, some lecturers

and students are not ready for distance learning. They are unfamiliar with or unfamiliar with e-learning platforms or software.

Therefore, the Institute for Learning Development at Esa Unggul University, together with IT at Esa Unggul University, strives to meet the needs of lecturers and students, such as providing tutorials or guides (as shown in Figure 2). Raw learning materials are added to the lecturer's academic system (Siakad). After being uploaded by the lecturer, the Bureau of Information and Communication Technology (BTIK) of Esa Unggul University will periodically update; however, enriching learning resources can be added directly to their respective online classes through the e-learning (moodle).

The helpdesk page also provides a guide for learning modules (figure 3), learning videos, discussion forums synchronously and asynchronously, and uploading modules, assignments, quizzes and journal links to support learning. During synchronous learning, lecturers and students are facilitated using Google Meet with premium features (capacity of 100 participants) and zoom meetings (total of 100, 500 and 1000), which are managed by BTIK and the Learning Administration Bureau (BAP) of Esa Unggul University so that distance lectures are carried out well. Also, IT in assisting the synchronization of learning materials in the academic system to e-learning and vice versa in helping to synchronize the assessment of assignments, quizzes and midterm and end-semester exam scores to the educational system of lecturers and students.

So far, the helpdesk related to learning, lecturers and students can contact the LPP, BAP and BTIK extension numbers at Esa Unggul University. In addition, they also provide services through the telegram social media group (Figure 4), making it easier for lecturers to communicate about the academic system and e-learning system.

Added Bandwith

In addition to making guidelines for the implementation of distance learning for lecturers and students, for the sake of smooth teaching and learning activities, BTIK Esa Unggul University adds an external cloud server with a larger bandwidth capacity.

Video Conference

Since the pandemic, UEU has continued to carry out webinars, training, workshops, and others (Figure 4). BTIK UEU provides adequate internet facilities. Since the pandemic, BTIK has added an external cloud server with a larger bandwidth capacity. BTIK also provides Google Meet and Zoom Meeting facilities to support the implementation of webinars, training and workshops conducted by faculties, study programs, units at UEU and even student activities that require these facilities. Of course, before using Google Meet or Zoom Meeting, lecturers, education staff, and students apply for permission to use them, so there are no clashes between activities.

<https://seminar-web.esaunggul.ac.id/>

Memorandum of Understanding (MoU) and Memorandum of Agreement (MoA)

UEU is very open to working with various parties to achieve the vision of producing intelligent, creative and entrepreneurial students. The activities carried out include: collaborating with multiple agencies such as the Central Indonesian Broadcasting Commission (KPI), the Agency for the Assessment and Application of Technology (BPPT), POLRI, Universities, and so on to improve learning.

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

UEU Powered by ASU

<https://www.esaunggul.ac.id/powered-by-asu/>

MoU with Mandala International

<https://www.youtube.com/watch?v=ycZLKe3pfJ0>

MoU with Bakrie University

https://www.youtube.com/watch?v=5_ueUpVNxk

MoA with Taxvisory

<https://www.youtube.com/watch?v=wEmZlIqbzPE>

MoU with Universitas Media Nusantara

<https://www.youtube.com/watch?v=mWgxiagHnT0>

MoU with Universitas Pattimura

https://www.youtube.com/watch?v=pZ8h-o_rKao

MoU with Komisi Penyiaran Indonesia (KPI)

<https://www.esaunggul.ac.id/universitas-esa-unggul-berkolaborasi-bersama-komisi-penyiaran-indonesia-mewujudkan-tenaga-kerja-kompeten-di-bidang-penyiaran/>

<https://www.youtube.com/watch?v=ZYI0ddn3jsk>

MoU with Badan Pengkajian dan Penerapan Teknologi (BPPT)

<https://www.esaunggul.ac.id/universitas-esa-unggul-dan-badan-pengkajian-dan-penerapan-teknologi-bppt-gelar-penandatanganan-mou-kerjasama/>

<https://www.youtube.com/watch?v=GTFVltj1yR0>

MoU with Universitas Ciputra Surabaya

<https://www.esaunggul.ac.id/dalam-rangka-terus-meningkatkan-kualitas-sistem-pendidikan-universitas-esa-unggul-gelar-mou-kerja-sama-bersama-universitas-ciputra-surabaya/>

<https://www.youtube.com/watch?v=Rmrz4fzJPdQ>

MoU with Telkom University

<https://www.youtube.com/watch?v=NzVR1RHrAig>

MoU with Gadjah Mada University

<https://www.youtube.com/watch?v=dZtbw2f1T8g>

MoU with Pancasila University

<https://www.youtube.com/watch?v=XkSnjOzLUWg>

MoU with Universitas Katolik Indonesia

<https://www.youtube.com/watch?v=1ecEB451r0>

MoU with Universitas Indo Global Mandiri

<https://www.esaunggul.ac.id/saling-berbagi-untuk-kemajuan-pendidikan-tinggi-fakultas-ekonomi-dan-bisnis-universitas-esa-unggul-bersama-fakultas-ekonomi-universitas-indo-global-mandiri-gelar-moa-kerja-sama/>

MoU with Universitas Agung Podomoro

<https://mbkm.esaunggul.ac.id/2021/09/10/universitas-esa-unggul-berkolaborasi-bersama-universitas-agung-podomoro-mensukseskan-program-merdeka-belajar-kampus-merdeka/>

Student Experience in MBKM Program

<https://mbkm.esaunggul.ac.id/2021/09/06/menjadi-seorang-class-manager-begini-cerita-selli-mahasiswi-ueu-saat-ikuti-mbkm-kemendikbud/>

Independent Campus Certified Independent Study and Internship Student Batch II 2022

<https://mbkm.esaunggul.ac.id/2021/12/06/program-magang-dan-studi-independen-bersertifikat-kampus-merdeka-batch-ii-2022/>

Independent Student Exchange 2 <https://mbkm.esaunggul.ac.id/2022/08/15/pelepasan-pertukaran-mahasiswa-merdeka-2/>

Output online learning :

<https://www.esaunggul.ac.id/wp-content/uploads/2021/03/Indeks-Kepuasan-Mahasiswa-Terhadap-Kinerja-Dosen-IKMKD-Genap-2020-2021.pdf>

<https://www.esaunggul.ac.id/wp-content/uploads/2021/03/Indeks-Kepuasan-Mahasiswa-Terhadap-Kinerja-Dosen-IKMKD-Ganjil-2020-2021.pdf>

<https://www.esaunggul.ac.id/wp-content/uploads/2021/03/Indeks-Kepuasan-Mahasiswa-Terhadap-Kinerja-Dosen-IKMKD-Genap-2019-2020.pdf>

<https://www.esaunggul.ac.id/wp-content/uploads/2021/03/Indeks-Kepuasan-Mahasiswa-Terhadap-Kinerja-osen-IKMKD-Ganjil-209-2020.pdf>

Number of sustainability community services project organised and/or involving students

Project name	Participants	Project duration	Project area
Volunteers in Handling COVID-19 Patients at RSUD dr. Chasbullah Abdulmajid Bekasi City. Volunteer for West Jakarta Health Sub-department's vaccination program	23	1 month	SI
Volunteer for West Jakarta Health Sub-department's vaccination program	46	6 month	SI
Penyuluhan Seni Grafis Untuk Guru Melalui Medium Kertas	7	6 month	ED
Healthy Environment Response Movement as an Effort to Control Infectious Diseases.	8	1 year	ED
Penyuluhan Pengelolaan Limbah Minyak Jelantah	21	1 year	WS
Creative Product Color Application Training for SDS Dasana Indah Students – Utilization of Rubber Waste in Applications Color Using Stamp Technique on Blacu Bag	50	1 year	WS
Drug Triangle in Overcoming Malnutrition Status in Toddlers	30	1 year	ED
Communication Campaign Against Climate Change Through Tree Planting Media in Rptru Nusa Indah, North Meruya, West Jakarta	48	1 year	EC
Efforts To Increase Knowledge About School Environment Sanitation In Elementary School Students In West Jakarta	22	1 year	ED
Utilization of the Corner Room to Support Learning Facilities in Our Learning Park	Siswa PAUD Anggrek dan Rosalina	1 year	SI
Fermentation Technology in Increasing Food Productivity Made by YPGH High School Students, Bogor Regency	55	1 year	ED
Actualization of Waste Diet in Daily Life	15	1 month	ED

Description:

UEU, through the Institute for Research and Community Service, supports lecturers to carry out research and community service to achieve SDG'S. UEU also provides financial support for lecturers and students in carrying out this community service activity. This community service involves lecturers and students and is carried out from 1 month to 1 year.



Figure 1. Junk Diet Actual



Figure 2. Campaign Against Climate Change



Figure 3. Healthy Environment Response Movement



Figure 4. Fermentation Technology in Increasing Food Productivity



Figure 5. Semi-Graphic Teacher's Work



Figure 5. Productive Color Application Training



Figure 6. Utilization of the Corner Area of the Room to Support Learning



Figure 7. Used Cooking Oil Processing



Figure 8. Volunteers in Handling COVID 19 Patients at RSUD dr. Chasbullah Abdulmadjid Bekasi City



Figure 9. Sanitation Knowledge Improvement

Number of sustainability-related startups

No.	Information
1	<p>Nama Start Up : UMKM Berseri (industry rumahan pembersih/ecozyme) *</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI</p> <p>URL: *</p> <p>Description : UMKM BERSERI (Bersih, Sehat, Lestari) is a startup engaged in going green solopreneur. In its operations, the team hopes to create a positive impact on the business and society environment. We criticize the waste problem in Indonesia, especially in our immediate environment. The idea was born to establish BERSERI UMKM in April 2019, hoping it could be an alternative solution to the existing problems. BERSERI MSMEs, in their business activities, are producing eco enzymes from fermented fruit peel waste that can be used as a versatile household cleaner. Eco enzyme in the fermentation process will produce acetic acid and alcohol compounds as antiseptic and antibacterial substances, making it practical for killing germs and cleaning household furniture. The eco enzymes that we produce, Ecozyme, produced from natural ingredients, without chemicals, are environmentally friendly because they do not make chemical waste. BERSERI MSMEs that have just been independently initiated require capital injections to build and develop businesses to run operations sustainably. It started in April 2019 with a turnover of Rp. 12,464,500,- and a profit of Rp. 2,088,020 with a workforce of 4 people.</p> <p>Documentation :</p> 
2	<p>Nama Start Up : Sayur Mandjur</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI</p> <p>Description :</p> <p>Sayur Mandjur was founded in 2019 on behalf of individuals engaged in procuring Hydroponic Vegetables. It runs its business in collaboration with Farmers' Groups and Independent Farmers. They carry out intensive cultivation of hydroponic vegetable farming.</p> <p>Documentation :</p> 

3	<p>Nama Start Up : Donsi (Donat Isi) Kelor *</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI</p> <p>URL: *</p> <p>Description : Moringa doughnuts (stuffed doughnuts) are the brand of our business, food made because they were inspired when reading an article about the benefits of Moringa leaves. Moringa doughnut has the main ingredient that characterizes our products, namely Moringa flour. Moringa flowers originally came from dried Moringa leaves from Moringa farmers. The good nutritional content of Moringa flour, as one of the essential ingredients of our business, is expected to foster public interest in consuming this because it is guaranteed to be safe and halal. Business development by making various cakes such as risol, pastel, putu ayu, and multiple cookies. A variety of flavours makes people love this food. Moringa donation products are in demand by people of various ages, including children, adolescents, and adults. The need for filled doughnuts is around 200 - 300 pc per day; therefore, with many people's interest in consuming filled doughnuts, we can meet market needs by producing more than 200-250 pc per day. We introduce these processed Moringa doughnuts directly or through social media to know that this product is different from those on the market because it has good nutritional benefits for health. We carry out direct marketing activities by selling to consumers. There are indirect marketing activities such as entrusting our products to travelling cake sellers and depositing in small shops and campus canteens. Our marketing activities are also carried out online through social media such as Instagram, Whatsapp, and Facebook. We are also ready to accept orders for recitation events and weddings. We offer free shipping services only for the three closest sub-districts in the Tangerang Regency area; outside, the three sub-districts will be subject to delivery services.</p> <p>Documentation :</p> <div style="display: flex; justify-content: space-around;">   </div>
4	<p>Nama Start Up : NiOnigiri *</p> <p>Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI</p> <p>URL: *</p> <p>Description : Food originating from Japan is identical to seafood products, one of which is fish; the way Japanese people eat fish is usually served raw, only washed; even the onigiri that Japanese people act is raw. Unlike the Indonesian people, in Indonesia, most of the food served is boiled or fried first. Marketing is done using Twitter and Instagram @NiOnigiri social media accounts. Because NiOnigiri's online business, we rely on good product photos to share on our social media accounts. In August, our income was Rp. 1,910,000 with sales of 82 units. In the second month, which is September, our revenue was Rp. 4,929,000 with sales of 212 units. Then in the third month, in October, our income was Rp. 5,090,000 with sales of 226 units. In these three months, our business revenue growth has consistently increased every month, with average revenue growth of 86.2% per month.</p> <p>Documentation :</p>



5 **Nama Start Up : Si Kunel (Si Buku Flanel)** *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *

Description : The business, SiKuNel or Si Flannel Book, is engaged in the craft sector. They made it because they felt the lack of children's learning about reading and arithmetic before entering school and parents' confusion about engaging in learning media to accelerate early childhood reading and counting skills. With the community's increasing needs, I took the initiative to create a learning media, namely in the form of a book creation that introduces an element of letters and numbers accompanied by the help of pictures. By using the primary material of colourful flannel, I am optimistic that this book has a multifunctional use, both as a means of playing for children due to the book's attractive shape and the media for children's learning. I am sure children will enjoy learning to use SIKUNEL because of the many colours of flannel used to make this book so that children do not get bored quickly and are even more curious about the contents. In the SiKuNel production process, I recruited three employees. I served as the initial design maker and managed marketing; one employee served as a tailor in making the base of this flannel book, and one employee was in charge of cutting and pasting materials on the bottom of the text according to a predetermined design. One employee doing finishing tasks, namely tidying up the details of SiKunel so that it is ready to be sold to customers.

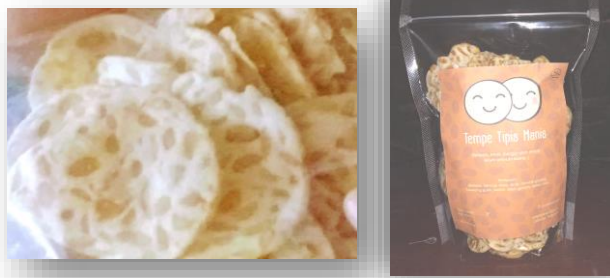
Documentation :



6 **Nama Start Up : Tempe Tipis Manis** *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *

Description : Tempe Tipis Manis Sweet Thin Tempe is the development of processed foods made from tempeh. Tempe itself is a type of food that everyone has eaten. Not even a few always add tempeh as a side dish in their food. Tempe that is usually found in the community is processed tempe as usual. However, by looking at the huge market potential accompanied by tempeh fans who exist in all circles,

creative ideas emerge to add to the collection of tempeh foods. By adding a sweet taste to tempeh, it is hoped that it will further increase the love for processed tempeh. This Sweet Thin Tempe has a crunchy, crispy, sweet and long-lasting taste texture. Sweet Thin Tempe manufactures halal ingredients and does not contain preservatives. One pack of Sweet Thin Tempe itself is sold at a price of around Rp. 5,000, - - Rp. 10,000, - depending on the net weight of the packaging. Tempeh Thin Sweet packaging also uses Standing Ziplock Plastic, which is suitable for carrying everywhere, even for giving gifts. This Sweet Thin Tempe product is in great demand by people of various ages ranging from children, teenagers and adults. We do marketing directly and indirectly to consumers. You do direct marketing activities by selling to consumers. There are also indirect marketing activities such as entrusting our products to colleagues to help sell them and depositing them in the campus canteen. Our marketing activities are also done online through social media such as Instagram and WhatsApp. Our Instagram social media access is @tempetipismanis_ which all people can access.



7 **Nama Start Up :** Teman Lapar *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *

Description : Teman Lapar is a type of culinary food that sells food in the form of Rice and Chicken Fillet Flour with various choices of sauces and is served in a unique and practical box. This hungry friend provides box chicken with original sauce variants, mango sauce, and pineapple sauce. Each pack of Teman Lapar is low, with a price range of 22 thousand to 25 thousand rupiahs. Not only selling food, but hungry friends also sell drinks such as fresh tea and lemon tea to complete the enjoyment of the hungry friend box. Of course, Teman Lapar tastes different from other types of processed chicken. The raw materials and sweet and sour mango and pineapple sweet and sour sauces are unique and have not been widely used in food preparations.

Documentation :



8 **Nama Start Up :** LATIMAKASTURI (Lampu Tidur Aroma Terapi Kasturi) *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *
Description :

This Kasturi Aromatherapy Sleep Lamp is a form of creativity that utilizes the primary material of parole pipe. As for the comparison of this product, what makes it different from other night lamps is that this night lamp has the addition of a musk-scented candle that can make the room's atmosphere comfortable and fragrant. Of course, this is very useful for pampering our sleep at night because the aroma of musk produced gives a relaxed sensation while sleeping. Coupled with calligraphy decorations that read Ayat Kursi, this sleeping lamp has a religious nuance. This night light is handy for those who do not like to sleep in dark or bright places because this night light emits a little light from the cracks of calligraphy writing so that the room is decorated with dim light.

Documentation :



9 **Nama Start Up :** FA & YA Collection *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *

Description :

Our business is a Creative Industry because of various hand skills and high artistic values. We produce Swarovski Digital Tasbih products with diamonds, equipped with three buttons: a button to count, a button to turn on the lights, and a switch to reset the count during dhikr. Our type of business is selling Swarovski Digital Prayer Beads.

Documentation :



10 **Nama Start Up :** Tropical-19 Smoothies *
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
URL: *

Description :

Tropical-19 Smoothies is a new business engaged in the beverage sector, which has a positive impact, especially during this pandemic. The pandemic period caused by the coronavirus in Indonesia does not

seem to be over soon, as the positive cases of Covid-19 are still growing. With these conditions, maintaining health and increasing body immunity is a wise enough way to avoid contracting the Covid-19 virus. Based on the World Health Organization (WHO) recommendations, it must also meet the need for vitamins and minerals and adequate food intake to help boost immunity. One of the vitamins that must be considered is vitamin C.

Tropical-19 Smoothies, in its manufacture, uses natural and selected citrus fruits combined with milk. The benefit of Tropical-19 Smoothies is that apart from quenching thirst, it contains Vitamin C from Sunkist oranges which function as an antioxidant. There are nata de coco, basil seeds and agar-agar in addition to this drink. Tropical-19 Smoothies that we produce in 250 ml packages for IDR 18,000 and 1 litre for IDR 60,000.

Documentation :



11 **Nama Start Up : Kedai Ala Japan**
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
Link : <https://instagram.com/kedaijalajapan?igshid=YmMyMTA2M2Y=>

Description :

Combining two cultural elements in a fusion food is now back into a culinary trend. The emergence of fusion food is inseparable from the role of the millennial generation, who likes to explore flavours. Junk food that people of all ages like turns out to contain a high number of calories. You can consume excessive salt, sugar, and fat in just one meal. Even so, 89 per cent of those interviewed agreed that it is necessary to maintain good health to help reduce the incidence of various diseases.

Documentation :



12 **Nama Start Up : BACARA**
Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI
Description :

Apa itu BACARA?

Bacara is a solution to help Deaf, and Mute Friends communicate with people who do not understand sign language. UEU Informatics Engineering student Muhammad Rizky Perdana explained that the startup he and his Project Team developed from various universities in Indonesia was a Sign Language

application called the Bacara (Speech Support). Rizky continued that this application was used as a sign language learning platform and directly translated sign language into text and audio. Muhammad Rizky Perdana managed to get funds for a startup project initiated by the Ministry of Education and Culture through the 2021 Bangkit Program.



13 **Nama Start Up : Davozkitbe**

Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI

Link : <https://linktr.ee/DavozKitbe>

Description :

Davo Kitbe is a startup engaged in food. Davo Kita produces contemporary desserts such as cinnamon rolls and garlic cream cheese buns and side dishes such as jambal suwir.



14 **Nama Start Up : Oesodo alam mandiri**


Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI

Description :

It is a trusted and beneficial herbal medicine company for the community to awaken a culture of liking to drink herbal medicine as an ancestral heritage and to serve healthy culinary delights. A herbal cafe partnership resulted from the BP MM final project at Esa Unggul University to provide educational facilities for the district to improve health status.

Documentation :



15	<p>Nama Start Up : ChocoFeer Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ED Description : This start-up passed the selection in the 2022 Entrepreneurial Student Development Program (P2MW). The start-up, initiated by Shinta Dewi Condrowati, is a start-up that innovates to produce healthy, contemporary food through a combination of Cocoa beans and Kefir fermented milk.</p>
16	<p>Nama Start Up : SILC Lasik Center Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI Description : Utama Eye Clinic with the leading service of LASIK surgery with advanced technology and experienced doctors, and a comfortable place where the procedure aims to eliminate refractive errors such as myopia (eyes -), hypermetropia (eyes +) and astigmatism (cylindrical eyes).</p> 
17	<p>Nama Start Up : Yeyezkia Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): ED Description : Yeyezkia is a product of the Faculty of Economic & Business Esa Unggul students in the field of Fashion or Clothing. The fashion made by Yeyezkia (Rezki Aulia) is a marketing target for women.</p>
18	<p>Nama Start Up : Jamunesaras Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): SI URL : https://instagram.com/jamunesaras?igshid=YmMyMTA2M2Y= Description : Jamunesaras is a product of herbal entrepreneurs or known as Jamu. Some of its products are Beras Kencur and Kunyit Asam.</p> 