

# SUSTAINABILITY REPORT

a Unggu

20 20







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# 1 Setting and Infrastructure





# Number of campus site



Esa Unggul University – Kebon Jeruk – West Jakarta Indonesia

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

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.





# **Campus Setting**



#### Description:

Esa Unggul is located in a urban area with 40 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 19.500 in population per km<sup>2</sup> Additional evidence link:

www.esaunggul.ac.id







#### **Description:**

Esa Unggul Bekasi is located in a residential city area with a forest cover area of 50 percent. The campus is still in the final stages of tidying up, which uses a smart building system. 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 mean high population density of 1.500 in population per km<sup>2</sup>

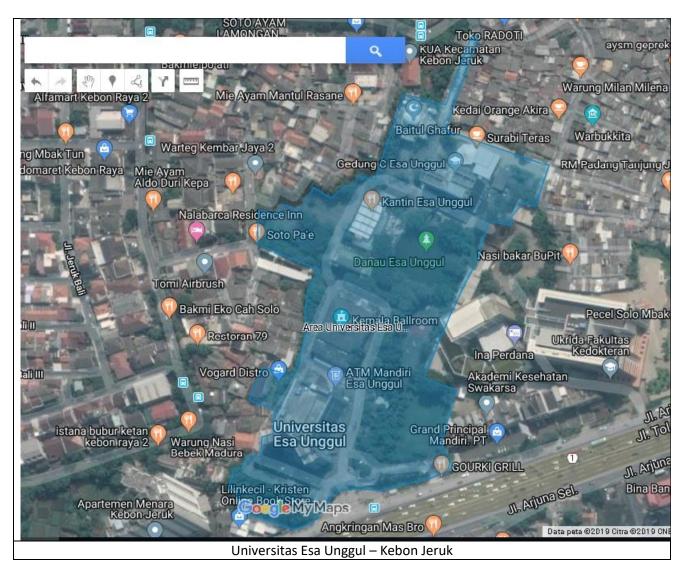
#### Additional evidence link:

www.esaunggul.ac.id





# Total Campus Area (meter<sup>2</sup>)



#### **Description:**

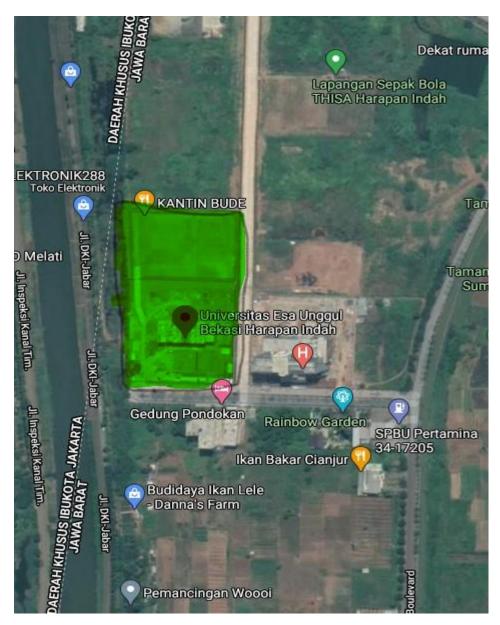
Total area: 40.497m<sup>2</sup> Total distance/circumference: 1,2 km

#### 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: 30.000m<sup>2</sup> 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





# **Total Campus Building Area**



#### Description:

The total area of the campus building in Esa Unggul Kebon Jeruk - Jakarta is 17,532.53m2

Additional evidence link: www.esaunggul.ac.id



**Description:** The total building area of the Esa Unggul Bekasi - West Java campus is 10,000m2





# **Total Area on Campus Covered in Forest Vegetation (meter<sup>2</sup>)**



#### **Description:**

Total area: 40.497 m<sup>2</sup> (40% Of total area) Total distance/circumference: 4.84 km



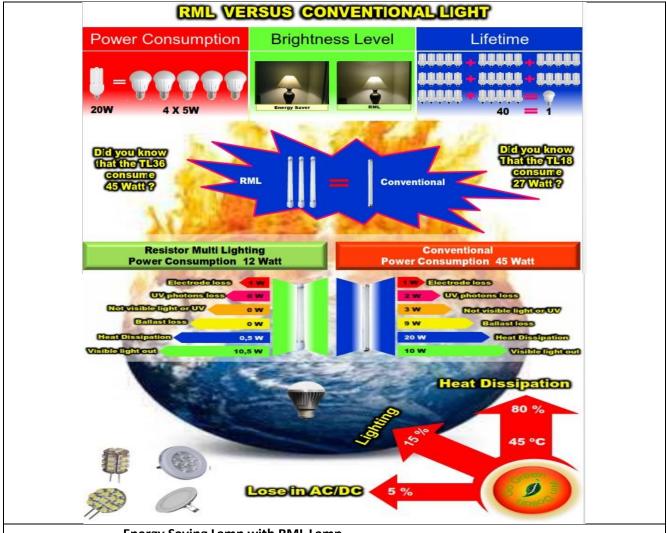


# 2 Energy

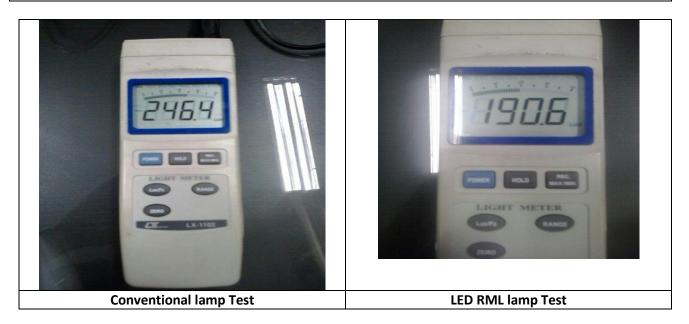




#### **Energy Efficient Appliances Usage**



**Energy Saving Lamp with RML Lamp** 







# Savings Calculation Table Of Lamp

Universitas Esa Unggul

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

				LAMPU KONVENSIONAL										LAMPU	RML						
No.	Туре	Jumlah Bola Lampu	Daya Bola Lampu	Lampu	Ballast	Jumlah daya	Jumlah Daya		LWBP		LWBP WBP		P WBP		WBP		Jumlah Daya RML	l	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 Kon	nsumsi Lis	tirk Lamp	u Konvensio	1.953		781,0		onsumsi L pu RML (k		465,12		186,05					

	Kons	umsi Listrik untuk Lampu Konvensio	nal setiap Bulan	
TDL	Biaya LWBP	955,50Rp/kwh	48.506.876,69	Rp/Bulan
TDL	Biaya W BP	1.433,28Rp/kwh	29.104.735	Rp/Bulan
Rp	2.328.348		-	Rp/Bulan
			419.900	Rp/Bulan
			78.031.512	Rp/Bulan
	TDL	TDL Biaya LWBP	TDLBiaya LWBP955,50Rp/kwhTDLBiaya WBP1.433,28Rp/kwh	TDL      Biaya W BP      1.433,28 Rp/kwh      29.104.735        Rp      2.328.348      -

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 W BP	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

59.543.405 Rp/Bulan

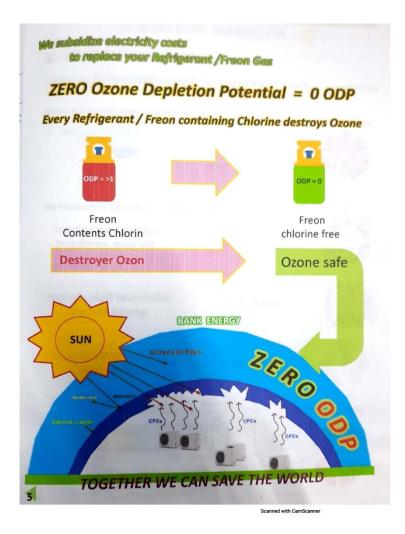
Penghematan Listrik dari pemakaian Lampu Energy efficient with RML Lamp can

reduce 75% of KWH usage. LED Lighting continues aplication for each room and facility with light detection.





#### Freon is used for air conditioning on campus



Use zero ozone Deletion potential





# **Smart Building Implementation**

#### \*Min. at least five requirements for each building

No.	Name	Place		automation		cofot.	salety			energy	-	water		Indoor	environment				lighting		Building Area (m²)
			B1	B2	<b>S1</b>	<b>S2</b>	<b>S3</b>	<b>S4</b>	<b>E1</b>	E2	A1	A2	11	12	13	14	L1	L2	L3	L4	
	Universitas Esa Unggul Building A	Jakarta, Indonesia				x											x				13.600
	Universitas Esa Unggul Building B	Jakarta, Indonesia	x			x											x				1.548
	Universitas Esa Unggul Building C	Jakarta, Indonesia				x										x	x				4.655
	Universitas Esa Unggul Building D	Jakarta, Indonesia				x											x				720
	Universitas Esa Unggul Building A	Bekasi, Indonesia	x		x				x		x			x			x				11.000
		Total																			31.523

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

#### Smart building implementation

# $\frac{\text{total smart building area}}{\text{total building area}} \times 100\%$ $\frac{20,523 \text{ }m^2}{40,497 \text{ }m^2} \times 100\% = 50,6\%$

#### Note:

Additional evidence link: www.esaunggul.ac.id





Building A	Building B
Building C	Building D





## **Renewable Energy Sources in Campus**

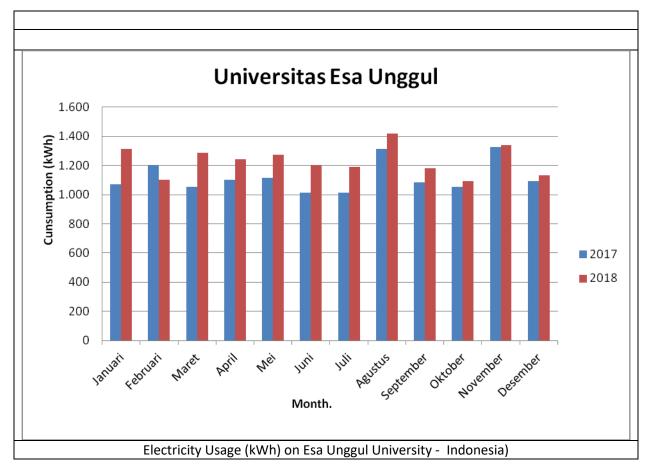


The example of biodiesel in building A and C, The rated power of the generator is 1250KW (Building A) and 900KW (Building C) the biodisel unit use for services lamp,air conditioner,computer,data center and operation maintenance building.





# **Electricity Usage per Year (in Kilowatt hour)**



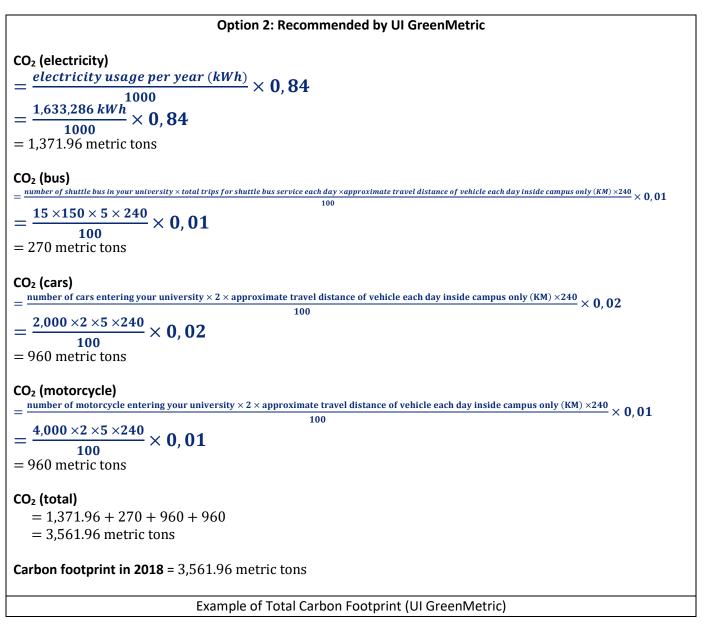
#### Description:

The total electricity usage for Esa Unggul University Campus in 2018 is 107.142 kWh. In the main campus area Esa Unggul & laboratory for lighting,cooling,computer, laboratory equiptment for more information the energy paragraph of the esa unggul 2018 anual electricity report.





# Please Provide The Total Carbon Footprint (CO<sub>2</sub> emission in the last 12 months, in metric tons)



#### Description:

```
(Please describe the total carbon footprint on your campus. You can describe more related items if needed.)
```

.....

Additional evidence link:





# 3 Waste





### **Recycling Program for University Waste**

Pemilahan Limbah Medis Padat Alur Pengelolaan
1  Hinimizati
2    Pernilahan      3    Perwalahan
Image: Constraint of the constr
6 Pergolation active
Maller (1) (2003)
Recycling Program for University Waste (Esa Unggul University, Indonesia)
AUGUST EREAS UNITY EREAS UNITY EREAS UNITY EREAS UNITY EREAS
Recycling Program for University Waste (University of Esa Unggul, Indonesia)

#### **Description:**

Esa Unggul uses a local recycling which has implemented single stream recycling, to prepare student and faculty have giudence campus also promotes recycling with spesific category for papers,glass,can/alumunium so easier to be application.





# Program to Reduce the Use of Paper and Plastic on Campus



#### **Description:**

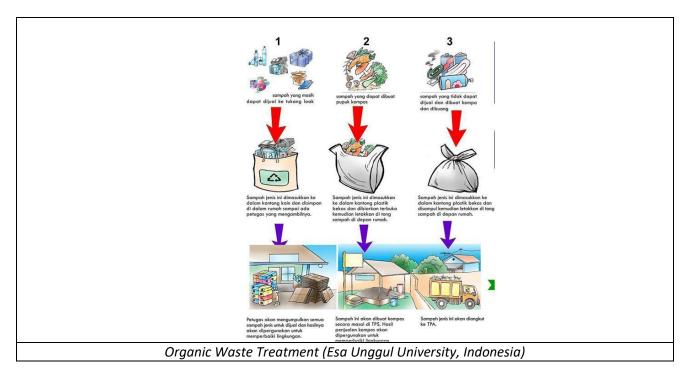
- 1. Esa Unggul supports paperless system to reduce paper in daily workplace. It can reduce a lot of paper use that mean Esa Unggul University can reduce CO2 emissions and save the world.
- 2. Solutions of reusable paper in back office, e.g. using 2-side of paper, always recheck your data before print, use online system instead of hard copy.
- 3. Esa Unggul University has a policy of "Reduce Reuse plastic bag in the last 2 years. We can reduce around 1,5 million bags per year or reduce 80% of plastic waste in university", "consistent with the campaign reduce plastic and use tumbler".

Esa Unggul project use tumbler for meeting and several activity every membersin campu, not use drink with plastic package, focus of campaign on "Reduce Plastic Pollution " and efficient cost for drink expense budget.





# **Organic Waste Treatment**



#### **Description:**

Esa Unggul is separate with organic and unorganic wastes. The wastes manage are canteens and cafetaria then deliver to plants. The organic wastes use for festilizer usefil for campus parks.





### Inorganic Waste Treatment

AVERAN HERAS AVERAN HERAS
Inorganic Waste Treatment (Universitas Esa Unggul, Indonesia)

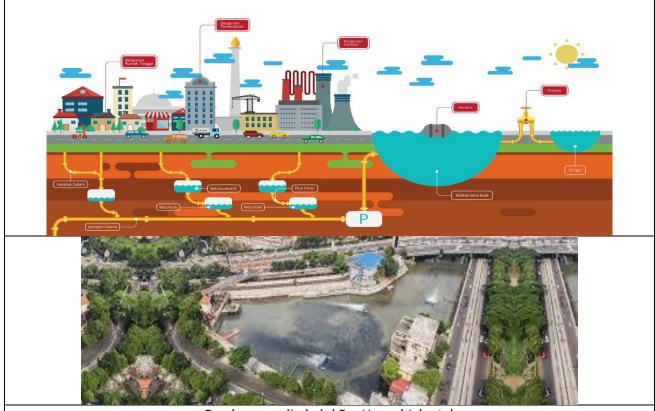
#### **Description:**

- Inorganic waste treatment at Esa Unggul University Indonesia in collaboration with companies in Jakarta, has estimated that the installation of inorganic waste collectors where (Electrical and Electronic Waste Equipment) can be collected.
- 2. 2. The Battery Project: the project, starting from collaboration between the University, DKI Jakarta has the aim to increase the awareness of users and citizens about collection and recycling.





# Sewage Disposal



Pembuangan limbah (Esa Unggul, Jakarta)

#### **Description:**

Provision of waste water management piping System/centralized system to overcome the problems of soil and surface water pollution in the province of DKI Jakarta.Referring to the decree of the Governor No. 45 year 1992, that every building located in an area that has been attached wastewater pipes are obliged to dispose of the waste water to the pipe through a narrow pipe connection.

By removing waste water to PD PAL Jaya piping Channels, the university does not need to make septic tanks or local wastewater treatment (IPAL) installations.Wastewater from grey water and from biological waste such as human stool (black water) will be transmitted through a piping system to a centralized wastewater treatment plant (IPAL).The waste water that enters the IPAL is further processed until it meets the quality standards for disposal to the receiver's water body (river) Additional evidence link:





# 4 Water





### Water Conservation Program Implementation



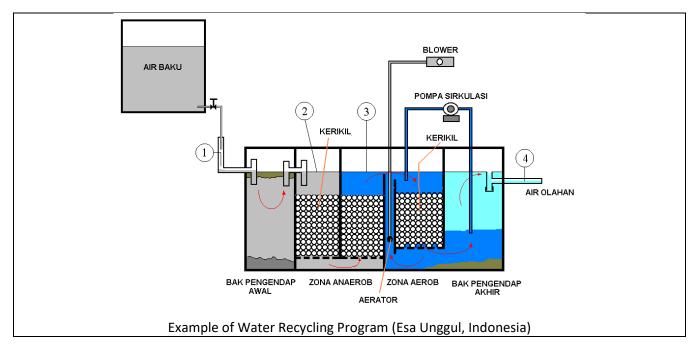
#### **Description:**

Buildings of Esa Unggul University have separate waste disposal systems, for wastewater and clean water (rain water). Rainwater is thus collected from the roof of the building and then discharged into local ponds and canals around the building. Esa Unggul also has a building where all the rainwater is collected for flushing toilets and for watering plants in the building. On our campus, we have a separate waste disposal system. We collect rainwater from the roof, parking area etc. And throw it in the ponds and channels on our campus.





## Water Recycling Program Implementation



#### **Description:**

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.)



#### Description:

Urinoir the system with high temperature also efective and efisien for usage. We can reduce water with minimun flush.

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





# 5 Transportation





# **Vehicle Population**

Picture A	Picture B

#### Description:

The number of vehicles both cars and motorbikes based on campus population at esa unggul University





# **Shuttle Services**

					Esa Un	Rung	apinan tanga jold etanjuji etah deri Li su Unguk J. Mar Aj U. 1994. Zu et ingen auf der State State Unguk J. Berner etahen der State etahen der State etaheen der State etahen der Statee etahen der Stateee etahe	niversitas iprae Utara, Rota Sota an botah an botah an botah an botah sota par Mulya, sota an botah sota par Mulya, sota an botah sota an botah sota an botah sota an botah sota an botah sota an botah sota an botah sota an botah sota sota sota sota sota sota sota sota			sitas Es	a Unggul
							JS	ity, ii	luones	Siaj		
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#### **Description:**

Shuttle service is served on campus especially for students according to a predetermined schedule starting from the shuttle to the campus regular and free. To view all the timetables students can see the schedule directly.

#### Additional evidence link:

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





# Zero Emission Vehicles (ZEV) Policy on Campus

PARKIR SEPEDA	
Campus Bikes (University Esa Unggul, Indonesia)	Pedestrian Path

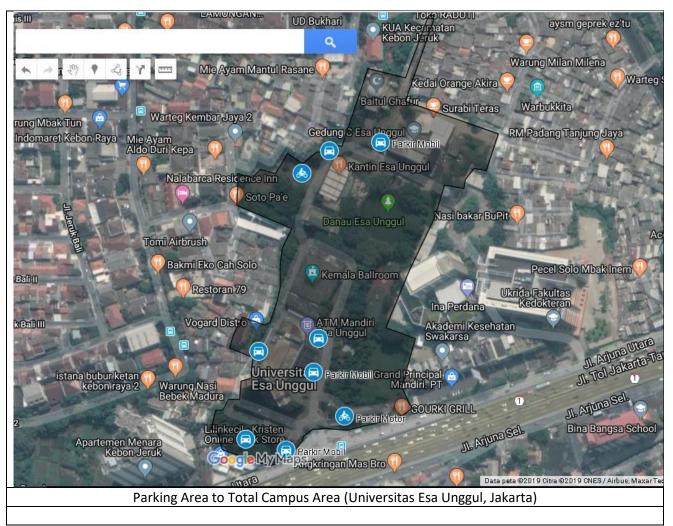
#### **Description:**

All Esa Unggul University sites are cyclists and pedestrian-friendly. Many have vehicle free lanes for these users. There is a 5 mph speed limit on all internal roads, and bicycle lanes on public roads.





# Ratio of Parking Area to Total Campus Area



#### **Description:**

(Please describe the ratio of parking area to total campus area. The following is an example of the description. You can describe more related items if needed.)

Total main campus area: 40.497 m<sup>2</sup> Total parking area = 420m<sup>2</sup> (552 Motor , 105 Mobil).

#### Additional evidence link:





# Number of Transportation Initiatives to Decrease Private Vehicles on Campus



#### Description:

Have two transportation initiatives to decrease private vehicles on Esa Unggul University

- 1. help reduce air pollution
- 2. take the campus bus on campus

Additional evidence link:





# **Pedestrian Path Policy on Campus**



Pedestrian (Universitas Esa Unggul, Jakarta)



#### Description:

- 1. Separator between road for vehicle and pedestrian path.
- 2. Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.
- 3. Street lamp for pedestrian in night.





# 6 Education and Research





# Number of Courses/Subjects Related to Sustainability Offered

No	Program Studi/Jurusan	Mata Kuliah	Keterangan
1	Perencanaan wilayah kota	Infrastruktur wilayah dan kota	
	(Urban Planing)		
		Perencanaan wilayah	
		Tata guna dan pengembangan	
		lahan	
2	Bioteknologi (Biotechnology)	Fisiologi hewan dan tumbuhan	
3	Kesehatan masyarakat	Dasar – dasar kehatan	
	(Public Health)	lingkungan	
		Pengelolaan limbah lingkungan	
		Pencemaran lingkungan	

#### **Description:**

The above is a list of programs that have undergone changes approved through the Curriculum program which aims to instill sustainability in all course content and modules offered by the University.

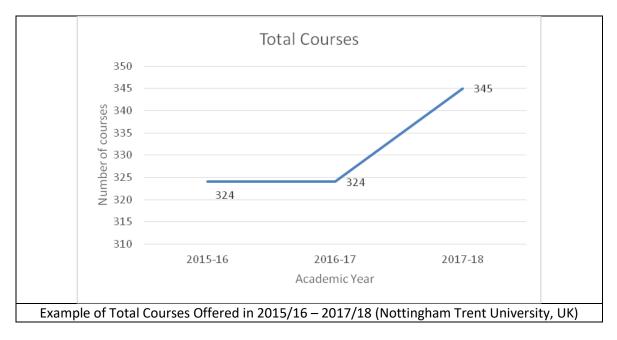
The list also includes courses with sustainability that are already embedded, and which include a Certificate of Sustainability in Practice as part of the core curriculum.

Total number of courses with sustainability embedded for courses running in 2018





# **Total Number of Courses/Subjects Offered**



#### **Description:**

(*Please describe the total of courses/subjects offered on your campus. The following is an example of the description. You can describe more related items if needed.*)

Total number of courses offered in 2017/18 = 345 courses (not modules)

Additional evidence link:





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

Research Title	Name Of Researcher	Research Time	Research Fund
Kloning gen cryIII dari Bacillus thuringiensis Isolat Lokal Untuk Produksi Tanaman Ubijalar transgenik Tahan Hama Boleng	Dr HENNY SARASWATI S.S.I, M.Biomed	3	\$14,769.57
VALIDASI DAN EKSPANSI PENGGUNA AKHIR ELECTRONIC INTEGRATED ANTENATAL CARE (e-iANC)	Dr HOSIZAH S.KM, M.KM	3	\$12,781.82
MODEL MEDIA KIE (komunikasi, informasi, edukasi) PADA PENCEGAHAN HYPOHIDRASI KEHAMILAN DI WILAYAH PUSKESMAS KECAMATAN KEBON JERUK, JAKARTA BARAT	Dr. ERRY YUDHYA MULYANI S.Gz, M.Sc.	3	\$21,143.60
PENGEMBANGAN DAN IMPLEMENTASI GPS TRACKING MOBILE ON-BASE IOT UNTUK MENINGKATKAN DAYA GUNA DAN SAING EKSPEDISI	Ir Ir NIZIRWAN ANWAR M.T	3	\$11,221.88





#### Number of Events Related To Sustainability



#### **Description:**

Events related to environment and sustainability hosted or organized by the UEU in the academic year 2018-2020.

Total number of sustainability/environment related events in:

2017/2018: 65

2018/2019: 52

2019/2020: 38

Additional evidence link: Picture A : <u>https://fikes.esaunggul.ac.id/cara-milenial-hadapi-covid-19-dengan-</u>

Additional evidence link: Picture B : <u>https://fikes.esaunggul.ac.id/prodi-farmasi-ueu-produksi-hand-</u>

Additional evidence link: Picture C : <u>https://www.youtube.com/watch?v=5WCrOduIAqk</u>

Additional evidence link: Picture D : <u>https://www.youtube.com/watch?v=LHSfYquv4-0</u>