



THE GLOBAL GOALS

it's
good
start

Kampus
Merdeka
INDONESIA JAYA

 itenas

2022

INSTITUT TEKNOLOGI
NASIONAL BANDUNG

SUSTAINABILITY REPORT



CONTENT

01

INFRASTRUCTURE

02

ENERGY

03

WASTE

04

WATER

05

TRANSPORTATI
ON

06

EDUCATION



01

INFRASTRUCTURE



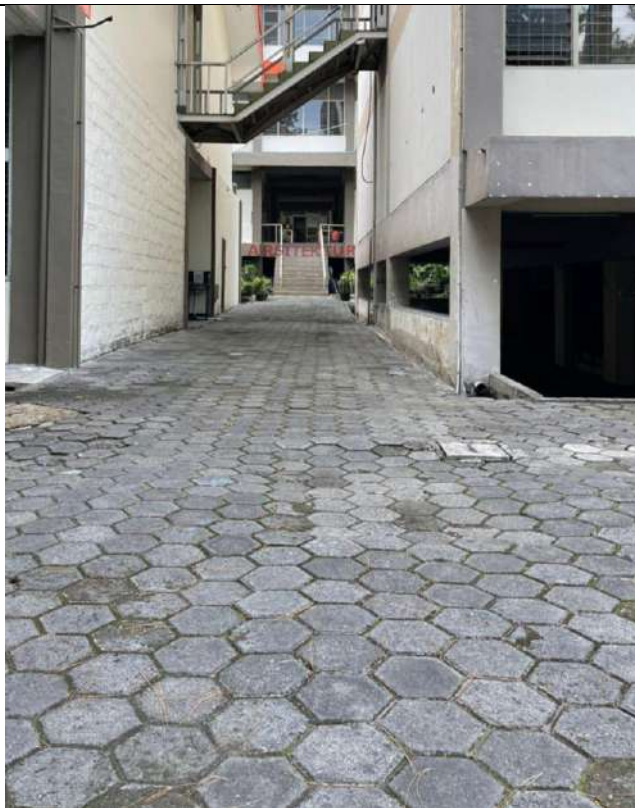
Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.11] Total area on campus for water absorption besides the forest and planted vegetation (meter²)



One of the street

Total area on campus for water absorption besides the forest and planted vegetation (Institut Teknologi Nasional Bandung, Indonesia)

Description:

Total **water absorption** area: 10,657 m²
Total area: 52,213 m²
Percentage area: 21%

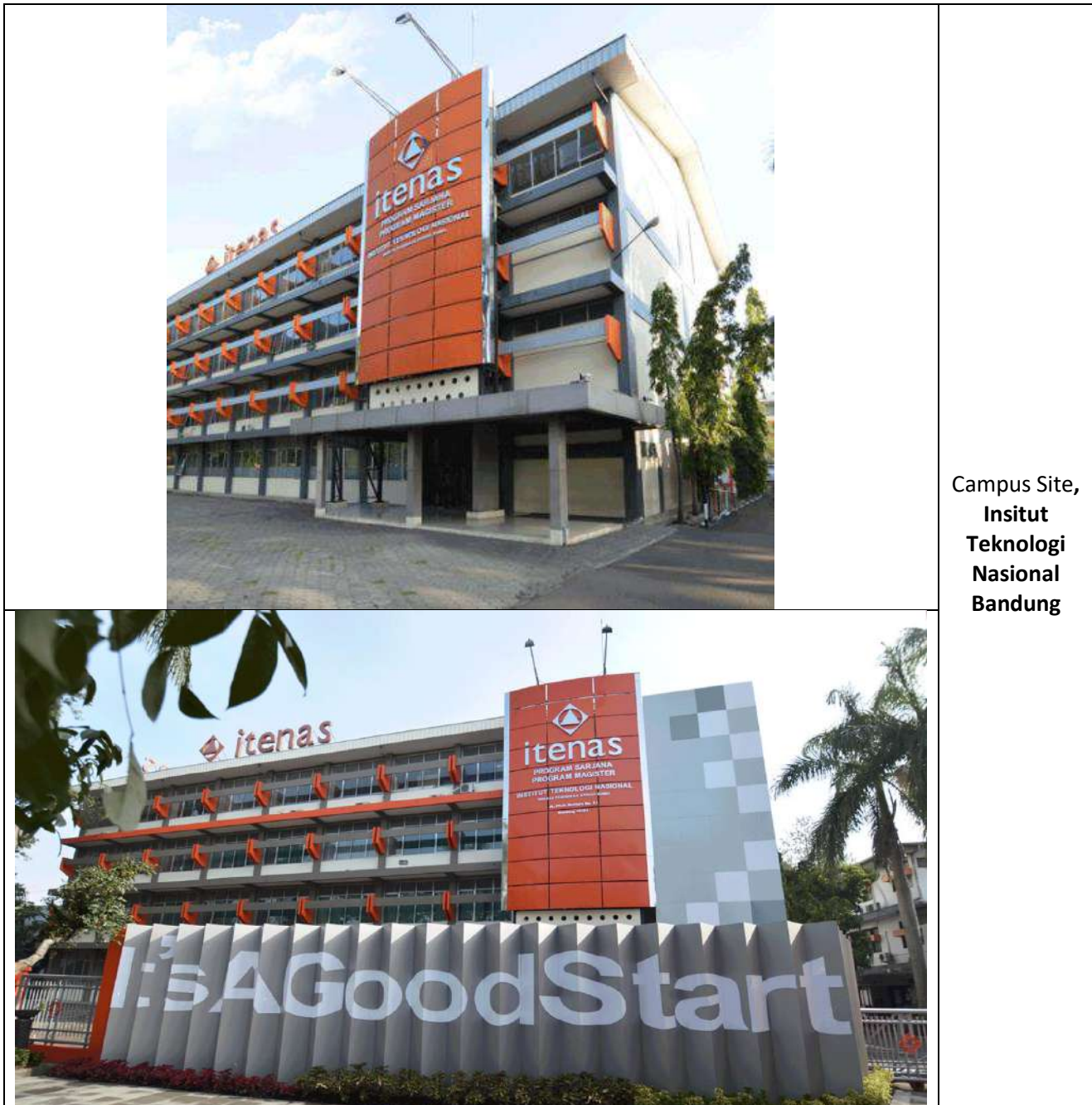
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.3] Number of Campus Sites



Campus Site,
**Insitut
Teknologi
Nasional
Bandung**

Description:



Institut Teknologi Nasional

Institut Teknologi Nasional Bandung is the private campus located on Jl. PHH Mustofa no. 23 – West Java, Indonesia. The campus is easily accessible from various directions in Bandung as quite strategic location. ITENAS is surrounded by various shopping centers, culinary centers, printing houses and also housing. Since 1972, ITENAS has been a very lively and fun campus. Conveniently located in the center of Bandung city with land area 5.3 acres around 40,000 m². ITENAS is supported with quality human resources, all accredited study programs, complete learning facilities, various facilities sports, health facilities, religion, and banking. ITENAS has improved quality in academic and non-academic fields significantly.

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

<https://www.itenas.ac.id/>

<https://www.itenas.ac.id/ecocampus/>

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.4] Campus Setting



Description:

Institut Teknologi Nasional Bandung is located in an urban area. ITENAS Bandung is located in the center part of the state of Bandung. Bandung has a total area of 167.31 km² and a total population of 2,507,888. This means a high population density of 14,897.76 inhabitants per km².

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

<https://www.itenas.ac.id/ecocampus/>

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.5] Total Campus Area (meter²)



Total Campus Area (Institut Teknologi Nasional Bandung, Indonesia)

Description:

Total area: 52,213.02 m²

Total distance/circumference: 1,209.22 m

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

<https://www.itenas.ac.id/>

Building name	Total Area
Gedung 1	4750 m2
Gedung 2	1655 m2
Gedung 3	1865 m2
Gedung 4	1335 m2
Gedung 5	850 m2
Gedung 6	850 m2
Gedung 8	2940 m2
Gedung 9	2940 m2
Gedung 10	2250 m2
Gedung 11	2250 m2
Gedung 12	2940 m2
Gedung 14	2940 m2
Gedung 15	2550 m2
Gedung 16	2100 m2
Gedung 17	4365 m2
Gedung 18	2250 m2
Gedung 19	5595 m2
Gedung 20	2550 m2
Gedung 21	1650 m2
Gedung 22	1080 m2
Gedung Serba Guna	1880 m2
Cafetaria	685 m2
Masjid ITENAS	360 m2
Klinik ITENAS	525 m2
Total	52855 m2

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

<https://www.itenas.ac.id/ecocampus/>

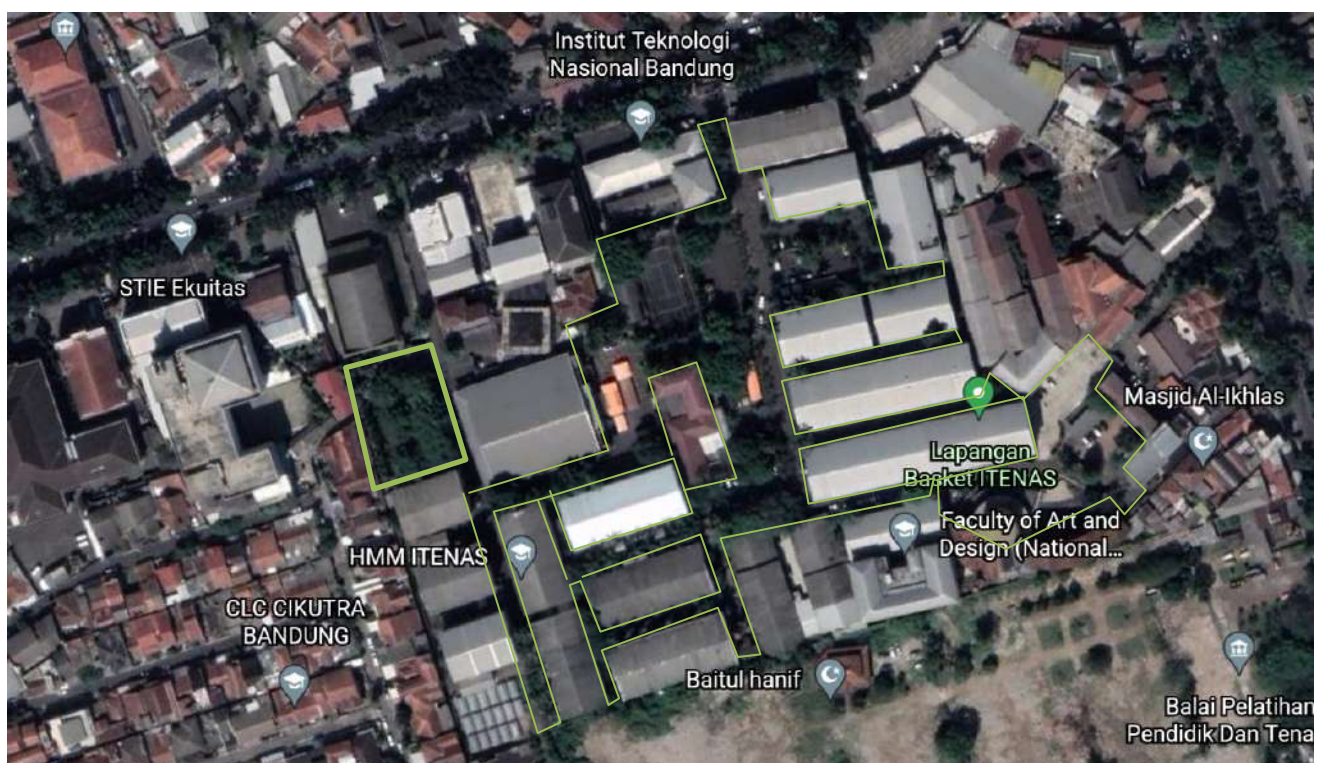
Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting & Infrastructure

[1.8] The ratio of open space area to total area



Description:

Ratio of open space towards total area: 52%

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

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

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



Description:

The forest vegetation is the same area with planted vegetation area in Institut Teknologi Nasional Bandung.

Total **forest vegetation** area: 5,925 m²

Total campus area: 52,213 m²

Percentage area: 11%

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

Evidence(s)

UI GreenMetric Questionnaire

University : Insitut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.10] Total area on campus covered in planted vegetation (meter²)

	
Plan of planted vegetation area	One of the planted vegetation area
Total Planted Vegetation Area (Institut Teknologi Nasional Bandung, Indonesia)	

Description:

Total **planted vegetation** area: 5,925 m²

Total campus area: 52,213 m²

Percentage area: 11%

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

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.18] University budget for sustainability effort (in US Dollars)

	2019	2020	2021	Average
Budget Total	\$ 6150000	\$ 5900000	\$ 6100000	\$ 6050000
Sustainability Budget	\$ 750000	\$ 650000	\$ 700000	\$ 750000
			Percentage	11.5 %

Description:

- The average percentage university budget for our university is 11.5%

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.20] Percentage of operation and maintenance activities during Covid-19 pandemic



Build hand washing facilities (Institut Teknologi Nasional Bandung)



Build hand sanitizer rack (Institut Teknologi Nasional Bandung)



Build another ramp near library for disable care facilities

Operation and maintenance activities of building in one year period

Description:

1	Total campus buildings area	52855 m ²
2	Total operated building	52855 m ²
	Percentage building that operated and maintained	100%

From July 2021 until June 2022, Institut Teknologi Nasional Bandung was conducting operation and maintenance activities of building such as hand washing facilities, hand sanitizer rack, disinfecting all over the campus building, and another ramp near the library for disable care facilities.

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

<https://www.itenas.ac.id/science-techno-park/>

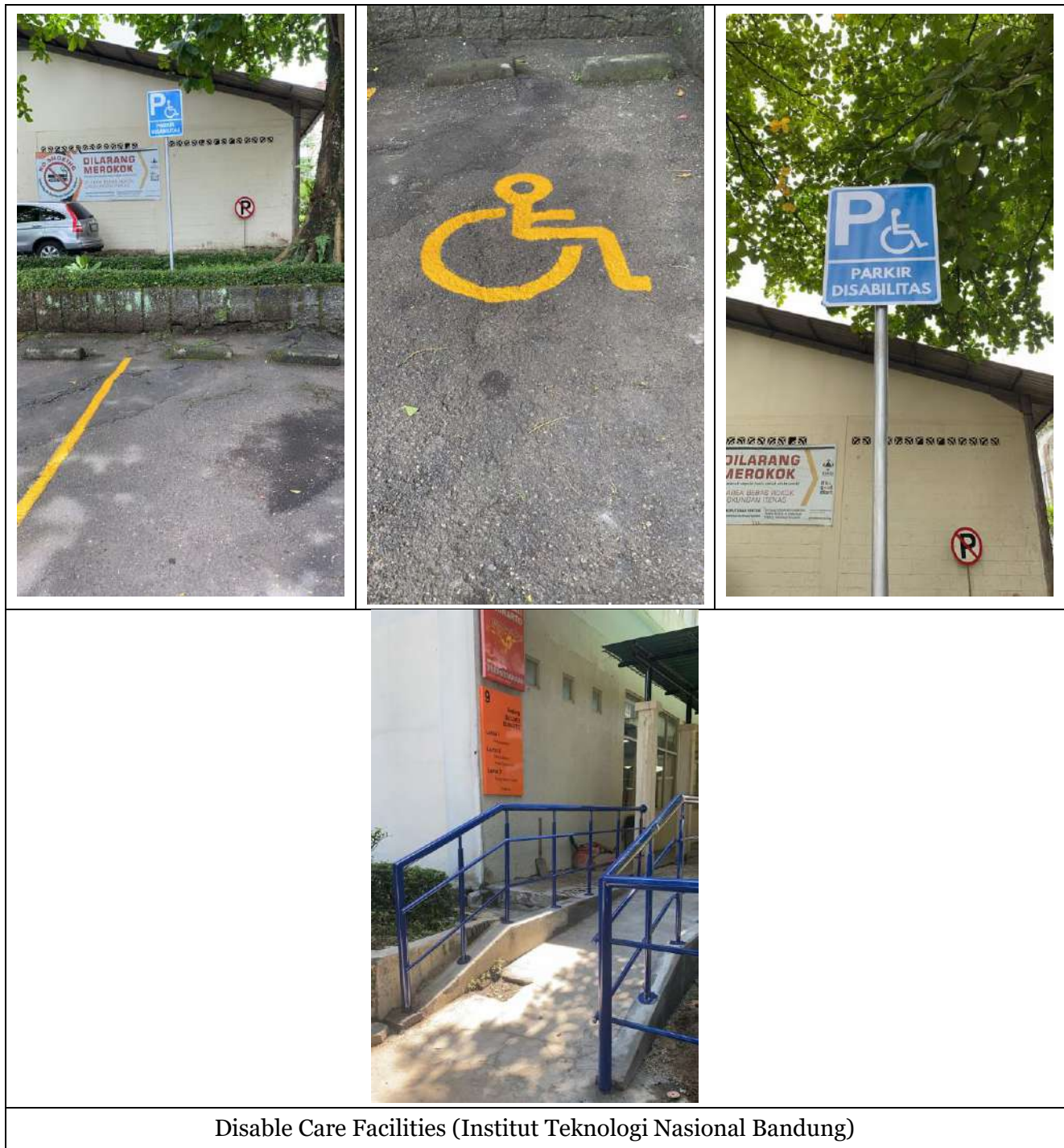
Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.21] Campus facilities for disable, special needs and or maternity care





Disable Care Facilities (Institut Teknologi Nasional Bandung)

Description:

- Nursing room is a private room for academic staff who are breastfeeding and can pump breast milk in private.
- Disabled parking for disabled people to park their car which is located at the nearest public building such as the library.

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

Evidence(s) UI GreenMetric Questionnaire

University : Insitut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

[1.22] Security and safety facilities



1. CCTV (Insitut Teknologi Nasional Bandung, Indonesia)



2. Fire Hydrant (Insitut Teknologi Nasional Bandung, Indonesia)



3. Fire Alarm System (Insitut Teknologi Nasional Bandung, Indonesia)



4. Assembly Point for Evacuation due to Natural Disaster (Institut Teknologi Nasional Bandung, Indonesia)

	
5. Exit Point for Evacuation due to Natural Disaster (Institut Teknologi Nasional Bandung, Indonesia)	6. Exit Point for Evacuation due to Natural Disaster (Institut Teknologi Nasional Bandung, Indonesia)

Description:

1. CCTV at ITENAS's center.
2. Fire Hydrant at Civil Engineering Department, Institut Teknologi Nasional Bandung.
3. Fire Alarm System at Environmental Engineering Department, Institut Teknologi Nasional Bandung.
4. Assembly Point for Evacuation due to Natural Disaster, Institut Teknologi Nasional Bandung.
5. Exit Point for Evacuation due to Natural Disaster, Institut Teknologi Nasional Bandung.

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

Evidence(s)

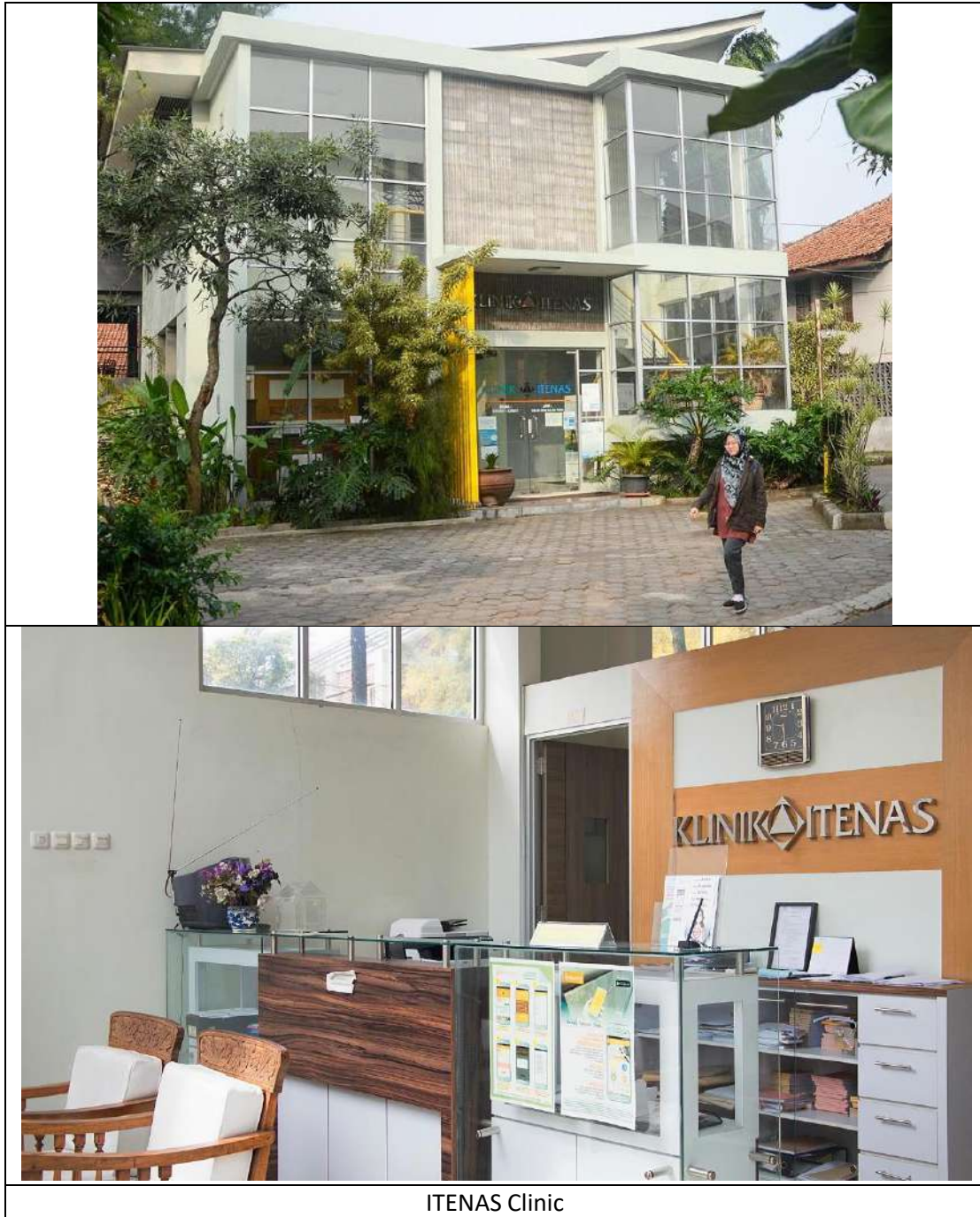
UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[1] Setting and Infrastructure (SI)

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





ITENAS Clinic

Description:

Institut Teknologi Nasional (ITENAS) Bandung provides health infrastructure facilities for students, academics and administrative staff's wellbeing, namely ITENAS Clinic. The growth of public visits to ITENAS Clinic from year to year is increasing, due to the information that ITENAS Clinic serves not only for the entire academic community (like student patients or employees or lecturers) but also for the public. ITENAS also provides information and access to the public for treatment to the clinic, both through billboards at the front door and back door (side). ITENAS Clinic also participates in community activities, such as Posyandu and educational activities, and the many health service collaborations with the Padjadjaran Network Clinic. This activity was proposed to encourage public or patient visits. For the public, ITENAS clinic accepts government insurance (BPJS Kesehatan) while for the academic community there is no charge.

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

- [regional bandung \[PT RSP\] \(@klinik.itenas\) • Instagram photos and videos](#)
- [Klinik Pratama Itenas | PT RS Padjadjaran \(klinikjejaringspadjajaran.com\)](#)

02

ENERGY



Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

[2.1] Energy Efficient Appliances Usage

Description:

For realizing energy savings, Institut Teknologi Nasional Bandung starts to deploy sustainable technology and energy management such as A/C inverter, smart LED lamps, waterless toilet, updating power supply units for PC all over operated buildings.

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

Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

[2.3] Smart Building Implementation

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

No.	Name	Place	aut om atio n		safety				ene rgy		wat er		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	
1	Gedung 9	Itenas, Bandung		x	x	x											x			x	2940
Total																					2940

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

Smart building implementation

$$\frac{2950}{\text{total building area}} \times 100\%$$

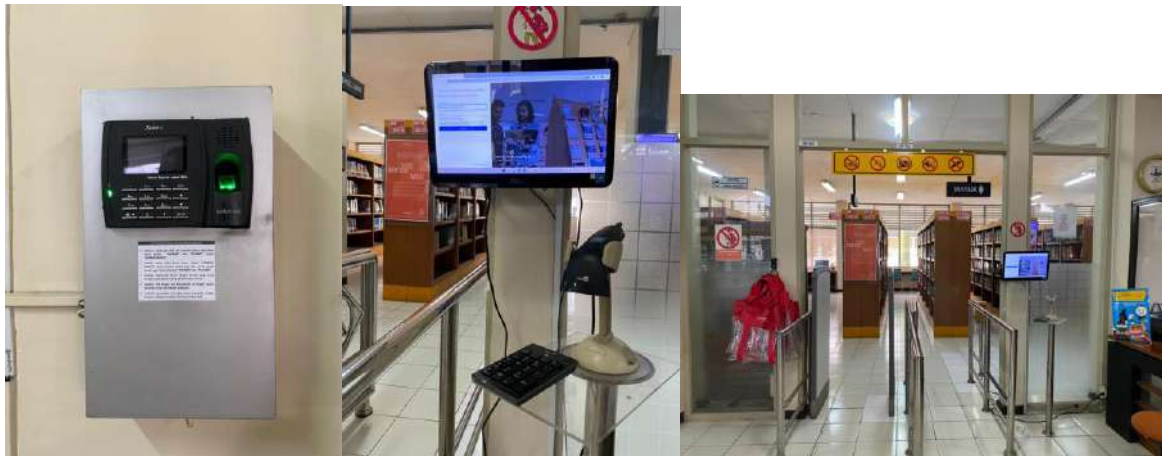
Example:

*Total Building Area: 150,000 m²

$$\frac{2940 \text{ m}^2}{52855 \text{ m}^2} \times 100\% = 5.5\%$$



Interactive support for users via APP or online service



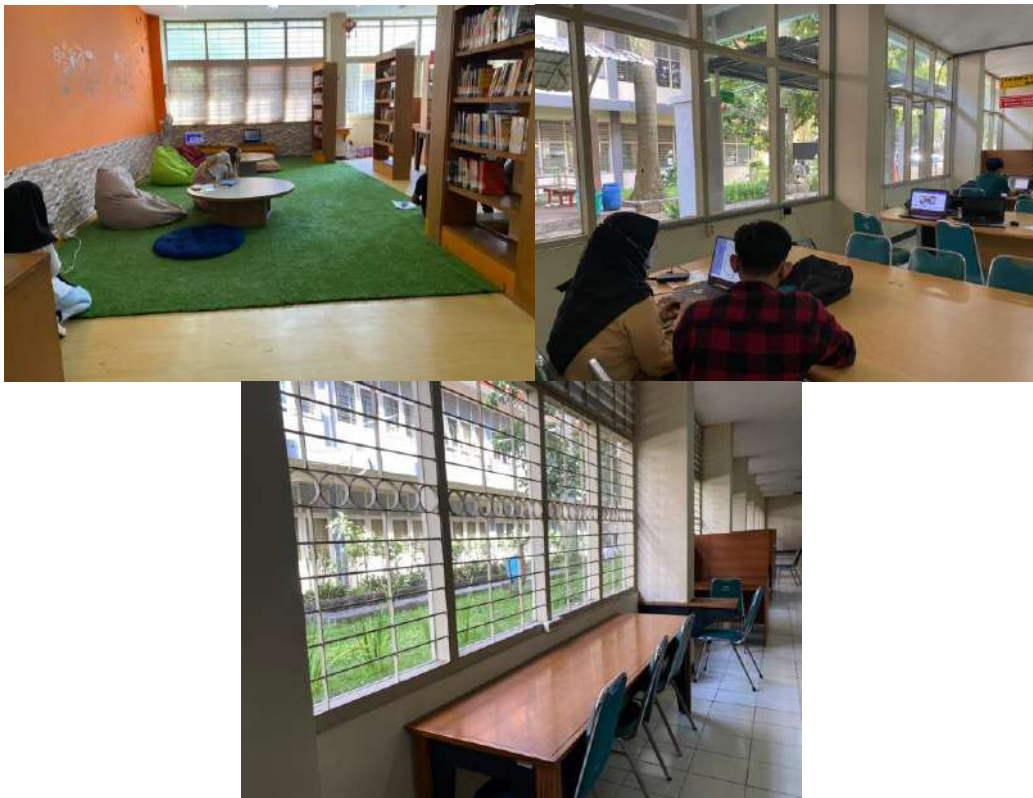
Intruder Alarm System (this building can be accessed only with id card or finger print)



CCTV System



High-efficiency luminaires (LEDs)



Natural daylight



Smart Classroom

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

[2.5] Renewable Energy Sources in Campus



Description:



Itenas Bandung has developed a 1460 Wp grid connected SPP (Solar Power Plant), using monocrystalline photovoltaic (PV) modules. This picture shows the development of cumulative energy from January 2018 to October 2021. For 2022 SPP Itenas Bandung has developed 3065 Wp.

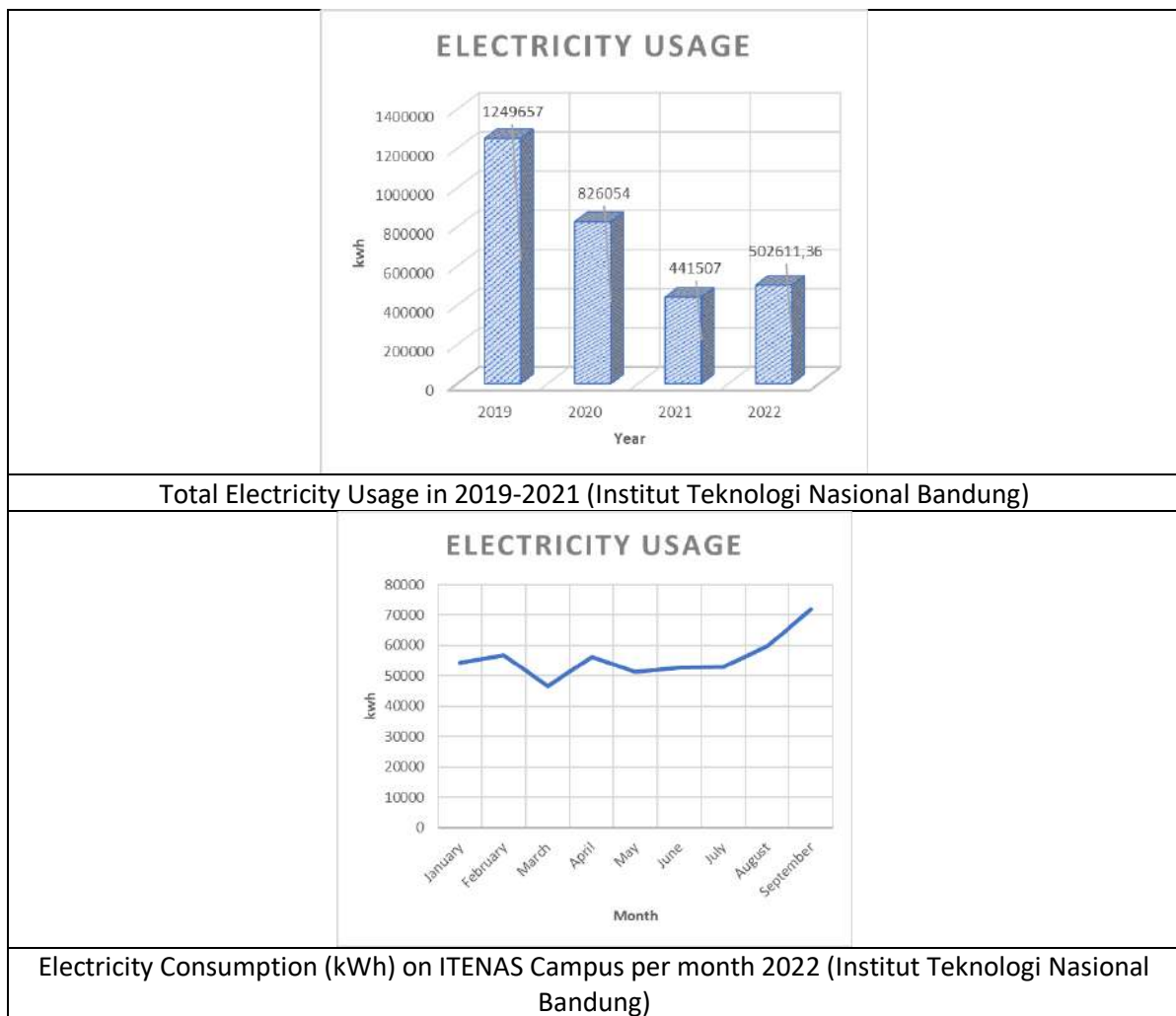
Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
 Country : Indonesia
 Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

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



Description:

The total electricity usage of ITENAS Campus in 2022 for January to September is 502,611.4 kWh which is used for lighting, cooling and laboratory appliances. From 2019 to 2021 there was a decrease in high electricity consumption, because of Covid-19 pandemic. Therefore, there were no learning activities on campus. In this year, Itenas start the offline classes per August so there is an increasement in electricity usage as shown in the graphic.

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

[2.7] ratio of renewable energy production divided by total energy usage per year



Install Date: 2018-01-09



Instalasi PLTS 1000 Wp di Itenas



Guru & siswa saat meninjau PLTS Itenas



Description:

Solar Power Plant produce 255.42 kwh Per month or 3065 kwh Per Year

3065 / 502611 (Electricity usage) = 0,61 %

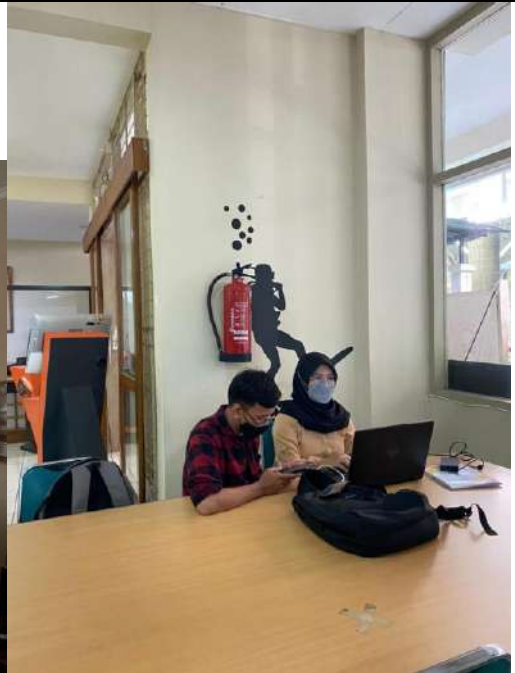
Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

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





Full Natural Ventilation and Daylight in every class and lecturer offices

Description:

Institut Teknologi Nasional Bandung is located in Bandung, Indonesia with a tropical climate that makes this location get sunshine all year round. This gives the advantage of natural lighting every day, besides that, natural ventilation is also easy to get at any time except during rainstorms which only occur a few times in a year. Bandung is also a city surrounded by mountains so the use of air conditioning or fans is very rare because the weather in this city is quite cool, which is at a temperature of around 16 – 32°C.

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

[2.10] Greenhouse gas emission reduction program

	
1. Charge parking (ITENAS Bandung, Indonesia)	2. Solar Power Plan (ITENAS Bandung, Indonesia)
	
3. Rideshare (ITENAS Bandung, Indonesia)	4. Save Water Garden (Waste Treatment)

	
5. Green House	6. Electric Car Program

Description:

1. Charging parking for private vehicles to reduce vehicles on campus.
2. Using renewable energy for electricity that reducing purchased electricity
3. Rideshare designed to encourage commuters to adopt healthy and sustainable transportation options. For now, rideshare is organized by each department.
4. Waste treatment, Safe water garden to help sanitation in remote areas.
5. Greenhouse
6. Electric car program

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
 Country : Bandung
 Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

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

CO₂ (electricity)

$$\begin{aligned}
 &= \frac{\text{electricity usage per year (kWh)}}{1000} \times 0,84 \\
 &= \frac{502611.4 \text{ kWh}}{1000} \times 0,84 \\
 &= 422,19 \text{ metric tons}
 \end{aligned}$$

CO₂ (bus)

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

CO₂ (cars)

$$\begin{aligned}
 &= \frac{\text{number of cars entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,02 \\
 &= \frac{600 \times 2 \times 0,5 \times 240}{100} \times 0,02 \\
 &= 28,8 \text{ metric tons}
 \end{aligned}$$

CO₂ (motorcycle)

$$\begin{aligned}
 &= \frac{\text{number of motorcycle entering your university} \times 2 \times \text{approximate travel distance of vehicle each day inside campus only (KM)} \times 240}{100} \times 0,01 \\
 &= \frac{1650 \times 2 \times 0,5 \times 240}{100} \times 0,01 \\
 &= 39,6 \text{ metric tons}
 \end{aligned}$$

CO₂ (total)

$$\begin{aligned}
 &= 422,19 + 0 + 28,8 + 39,6 \\
 &= 490,59 \text{ metric tons}
 \end{aligned}$$

Carbon footprint in 2022 = 490,59 metric tons

Description:

In 2022, carbon footprint in Itenas Bandung is 490,59 metric tons. In September the government allows 100% capacity for university students to study in class, because of this regulation, there's a significant number of vehicles that enter the campus.

Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Bandung
Web Address : www.itenas.ac.id

[2] Energy and Climate Change (EC)

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



**LOKAKARYA UI GREEN METRIC
LLDIKTI IV 2022**

Sambutan:

Prof. H. F. Sari, M.Sc., M.M.
Prof. Dr. Adhijana
Dr. Samsul, S.Pd., M.S.

Sesi 1: UI GreenMetric
Speakers:
Prof. H. Gunawan Tjiptono, M.Arch., Ph.D.

Sesi 2: Pengelolaan Energi dan Perilaku Hidup,
dan Pengolahan Limbah
Speakers:
Dr. Eng. Beta Perantara, S.T., M.T.
Nendy, S.H., M.Si.

Sesi 3: Pengolahan Air, Transportasi, Pendidikan dan Penelitian
Speakers:
Dr. Erna Supriyati
Dr. Ruyah Huseini, M.Si.
Iwan Kuswaka, Ph.D.

Jumat
23 September 2022

Pukul
08.00 - 11.00 WIB

Link Registrasi
https://bit.ly/UGM_LLDIKTI4



BPS 2022
21th International Workshop
for Young Scientists
„BioPhys Spring 2022“

Logos: ITC, PAN, MAME, CUBA

SLOVAK UNIVERSITY OF AGRICULTURE IN NITRA
FACULTY OF ENGINEERING
INSTITUTE OF ELECTRICAL ENGINEERING, AUTOMATION,
INFORMATICS AND PHYSICS
Dr. A. KUBA 2, NITRA, SLOVAKIA

**21st International Workshop for Young
Scientists BioPhys Spring 2022**

BOOK OF ABSTRACTS

BPS 2022

to be held

on 30th – 31st May 2022 in Nitra

AgroBioTech Research Centre – Congress Hall

Nitra, 2022

**TOWARDS IMPLEMENTATION OF VISEGRÁD
FOUR+ CONSORTIUM IN ACADEMIC AND
SCIENTIFIC ACTIVITIES**

Rozmanová D.¹, Hrabčík J.², Hrabcová Z.³, Libra M.⁴, Farkas L.⁵

¹Institute of Technology, Faculty of Engineering, Nitra, Slovakia
²Institute of Agriculture, Faculty of Agriculture, Nitra, Slovakia
³National University of Agriculture and Forestry, Nitra, Slovakia
⁴University of Agriculture in Nitra, Slovakia
⁵University of Agriculture and Life Sciences, Godol, Hungary

Corresponding author: Rozmanová D., e-mail: daniela.rozmanova@unz.sk

Keywords: The new paradigm, key drivers, internationalization, collaboration, mobility

The new paradigm about the employees has opened mostly the activities (the human capital resource production) in the world. The key drivers related to this issue are: Industry 4.0, continuous learning, internationalization, and COVID-19. In view of the internationalization matter, here we not only the academics but also the culture and economy in the host country. Meanwhile, in simple form, the evolution of employee is shown in Table 1 [1].

Table 1. The evolution of employee

Role	Content
Employee	Work discipline
Employee + IT	Work discipline
Work as a machine	Work discipline
Use computer equipment	Work discipline
Engaged in work	Engaged in work
Challenged, creative, public	Challenged, creative, public
Pro-ethical work	Pro-ethical work
Team, information	Team, information
Use vision	Use vision
Follow on demand	Follow on demand
Engaged in knowledge	Engaged in knowledge
Complete, learning and teaching	Complete, learning and teaching

APA ITU SAFE WATER GARDEN?

Safe Water Garden (SWG) adalah sistem pengolahan limbah terukur yang dikembangkan dari konsep awal UNICEF. Sistem ini dapat digunakan secara individu ataupun komunal.

KESESUAIAN DENGAN SNI

SNI 2398:2017

Tata cara perencanaan tangkiseptik dengan pengolahan lanjutan (sumur resapan, bidang resapan, up flow filter, kolam sanita)

SNI 8466:2017, Tata cara perencanaan pengolahan air limbah rumah tangga dengan sistem reaktor anaerobik bersekat (SRAB)



HUBUNGI KAMI

Safe Water Gardens Ltd.
www.safewatergardens.org
info@safewatergardens.org



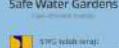
LPPM itenas Bandung
Jalan Pahlawan Mustajaba 23
40132 Bandung
lppm@itenas.ac.id



Fakultas Teknologi Pertanian, UGM
Jalan Flora No. 1, Yogyakarta
fateta@ugm.ac.id

SAFE WATER GARDEN

Solusi Air Limbah Rumah
Tangga



Safe Water Garden for Better Sanitation

Kerja Sama Universitas Jenderal Achmad Yani (Unjani) Dengan Institut Teknologi Nasional (Itenas) Bandung Di Bidang Penelitian Pengembangan Mobil Listrik

By BKIP Berita



09
APRIL 2021



08
APRIL 2021

ITENAS SERGAP SENYAP E.V

Inovasi Baru dari Itenas Bandung, Konversi Kendaraan Roda 3 Itenas.

By BKIP Berita

Institut Teknologi Nasional (Itenas) Bandung kembali diundang oleh Dinas Energi Sumber Daya Mineral Provinsi Jawa Barat untuk memamerkan kendaraan listrik...

Electric Car Development



Description:

As in previous years, ITCN continues to support energy innovation programs and climate change, one of which is the development of electric cars, greenmetric workshops, renewable energy research, waste recycling and making better sanitation in remote areas.

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

<https://www.itcn.ac.id/2021/04/09/kerja-sama-universitas-jenderal-achmad-yani-unjani-dengan-institut-teknologi-nasional-itcn-bandung-di-bidang-penelitian-pengembangan-mobil-listrik/>

<https://www.itcn.ac.id/2021/10/02/kontribusi-itcn-bandung-melalui-pkm-pembangunan-sarana-sanitasi-dan-air-di-desa-nagrak-kabupaten-bandung/>

03

WASTE



Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[3] Waste (WS)

[3.1] Recycling Program for University Waste



Sorting trash bin (Itenas, Bandung)



Infectious Waste Treatment (Itenas, Bandung)

Description:



Itenas Bandung still uses waste disposal services from the government in waste management. However, institutions try their best to help in sorting not only organic and inorganic waste but also electronic waste. In addition, during vaccination activities that have been held by Itenas, Itenas also collaborated with infectious waste service companies in order not to pollute the environment and reduce the spread of covid-19 due to exposure to vaccine waste.

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

<https://www.itenas.ac.id/2021/08/03/pengelolaan-limbah-vaksin-aman-itenas-bandung-bekerja-sama-dengan-pt-jasa-medivest/>

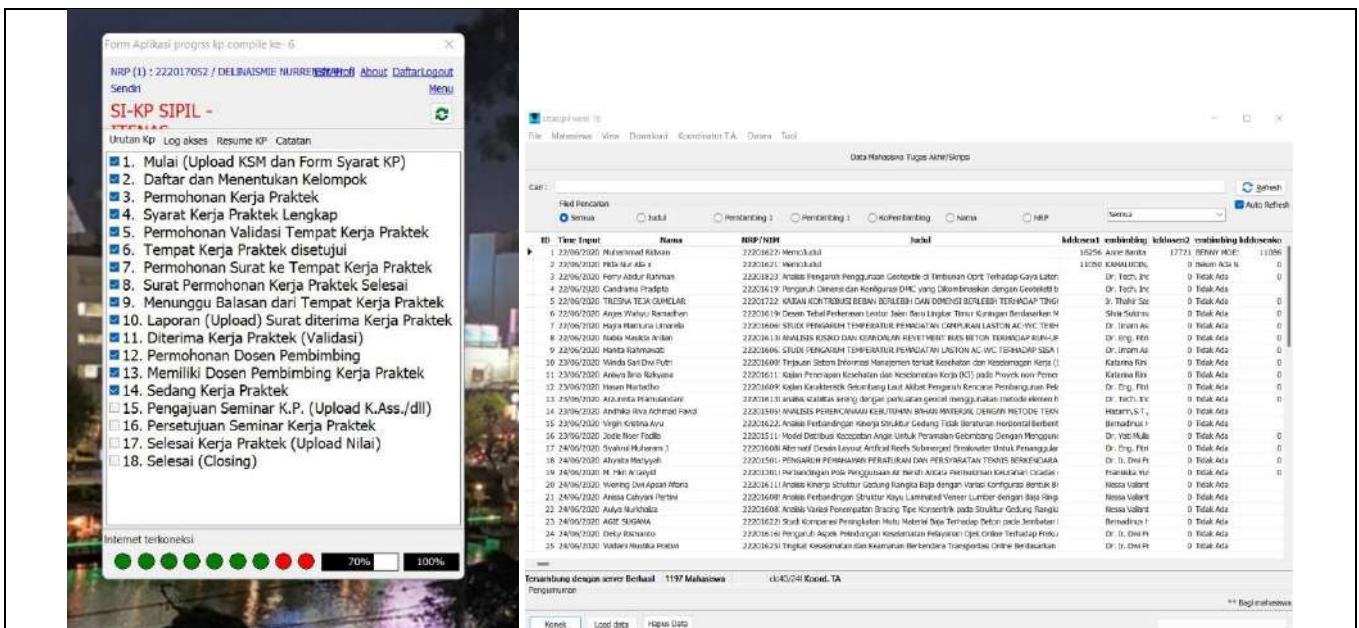
Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

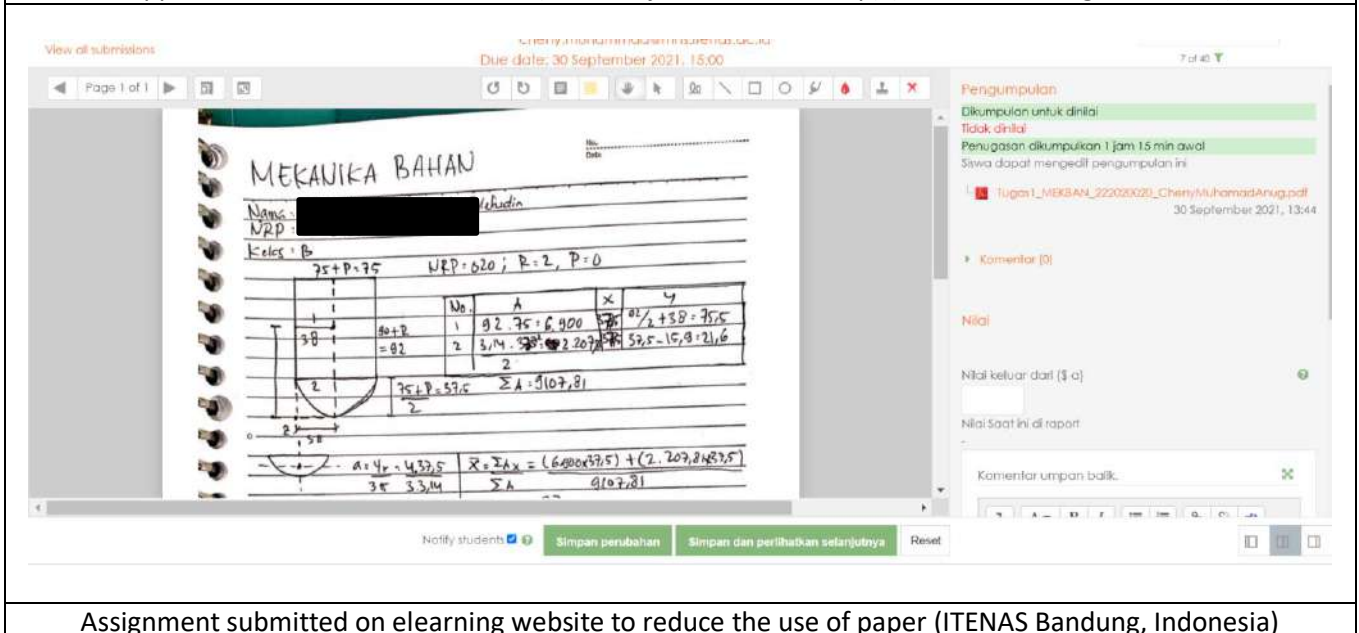
[3] Waste (WS)

[3.2] Program to Reduce the Use of Paper and Plastic on Campus



The screenshot shows a web application interface for ITENAS. On the left, there is a sidebar menu with various options like 'Mulai (Upload KSM dan Form Syarat KP)', 'Daftar dan Menentukan Kelompok', 'Permohonan Kerja Praktek', etc. The main area displays a table with columns for 'No', 'Tipe Input', 'Nama', 'NRP/NIM', 'Jenis', 'Indikator', 'Penyumbang', 'Indikator', 'Penyumbang', and 'Indikator'. The table contains data for various students and their contributions to the program.

Application for one of the courses (Final Project and Internship) (ITENAS Bandung, Indonesia)



The screenshot shows a submission page on an elearning website. The main area displays a handwritten assignment titled 'MEKANIKA BAHAN' (Material Mechanics) with calculations and diagrams. The submission form on the right includes fields for 'Pengumpulan' (Submission), 'Dikumpulkan untuk dinilai' (Submitted for evaluation), 'Tidak dinilai' (Not evaluated), 'Penugasan dikumpulkan 1 jam 15 min awal' (Assignment submitted 1 hour 15 minutes early), and 'Siswa dapat mengedit pengumpulan ini' (Student can edit this submission). The form also includes a 'Komentar' (Comment) field and a 'Nilai' (Score) field.

Assignment submitted on elearning website to reduce the use of paper (ITENAS Bandung, Indonesia)

**SAY NO
TO PLASTIC**



itenas
Institut Teknologi Nasional

Kampus
Maju

**Reduce
Reuse
Recycle**



itenas
Institut Teknologi Nasional

Kampus
Maju

**Save Paper,
Save Trees,
Save the Planet**

DON'T WASTE PAPER UN-NECESSARY



itenas
Institut Teknologi Nasional

Kampus
Maju

Campaign to Reduce the Use of Paper and Plastic in Campus Itenas Bandung, Indonesia

Description:

1. Itenas Bandung IT supports a paperless system to reduce paper in the daily workplace. It can reduce a lot of paper use and follow a green lifestyle.
2. Solutions of reusable paper in back office, e.g. always recheck data before print, use online system instead of hard copy,
3. Used paper for assignments or misprinted paper is collected in one place to be recycle as a notepad,
4. Campaign about plastic pollution.
5. Students and lecturers support this green lifestyle by using a tumbler instead of a plastic bottle.



Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[3] Waste (WS)

[3.3] Organic Waste Treatment

Organic waste in the form of leftover food from the cafeteria is usually collected in a special trash bin that will later be carried by the local people who need it for livestock food purposes or to be composted.

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

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[3] Waste (WS)

[3.4] Inorganic Waste Treatment

ALAT PRESS SAMPAH - ITENAS



Inorganic Waste Treatment (ITENAS Bandung, Indonesia)



Setting up SWG at Itenas using plastic waste (ITENAS Bandung, Indonesia)

**Description:**

For plastic waste there is a press machine so that the plastic waste is easy to carry by cleaner and does not fill the trash can. In addition, plastic waste around the campus is also used as a basic material for making safe water gardens (SWG) to manage the wastewater produced around the campus. SWG made by ITCENAS is also applied to one of Nagrak villages to help the local community manage wastewater and provide better sanitation.

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

https://www.instagram.com/tv/CUjNiSUhnxQ/?utm_medium=copy_link

https://www.instagram.com/p/CUhw5vGleSC/?utm_medium=copy_link

<https://drive.google.com/drive/folders/14K1kTzM70ZC8FU5HrhZg0ERoTThMKvQ1?usp=sharing>

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[3] Waste (WS)

[3.5] Toxic Waste Treatment



Toxic Waste Treatment (ITENAS Bandung, Indonesia)

Description:

The toxic waste from the laboratory is safely stored and labeled until they are picked up by the authorized company.

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

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[3] Waste (WS)

[3.6] Sewage Disposal



Call us : +62 22 7272215 ext 275 E-mail : app@itenas.ac.id

Pekan 11: SDG 6 : Air Bersih dan Sanitasi Layak, SDG 11 : Kota dan Komunitas Berkelanjutan

Tujuan: Peserta memahami kota berkelanjutan, pola urbanisasi, dan langkah untuk menjadikan kota yang tangguh, dengan pendekatan partisipatif.

Dosen: Ir Putu Rudy Satriawan, MSc., (Institut Teknologi Sepuluh Nopember); Iwan Juwana, Ph.D., (Institut Teknologi Diponegoro); Unang Mukhtan, MBA., Ph.D., dan Dr. Henky Mayaguzz, S.Pi., M.T., M.Sc., (Universitas Lampung).

Materi Pekan 11

UI GreenMetric Online Course on Sustainability
Praktik Sustainable Development Goals di Indonesia
6 September - 22 Desember 2022

Praktik SDGs Goal 11: Pengelolaan Limbah Cair dan Persampahan

Studi Kasus: Desa Negeri, Kabupaten Brebes

Forum Diskusi Pekan 11

Link Pengumpulan Tugas Refleksi Pekan 11



Setting up SWG (ITENAS Bandung, Indonesia)

Description:



In ITCENAS Bandung, the organic waste managed directly by the institution is waste from toilets using a safe water garden system (SWG). In addition, there are also the conventional disposal systems that environmentally friendly in the form of septic tank biofil.

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

04

WATER



Evidence(s) of UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[4] Water (WR)

[4.1] Water Conservation Program Implementation



Water Conservation – Rain Water through Biopores



Preparation of Rainwater Harvesting

Description:

Itenas Bandung has started the conservation of water in the campus, by having various designated areas for harvesting the rainwater. In those areas, rainwater are harvested using biopores drills. During the implementation, students from different departments were involved.







The Opening Ceremony of Designated Campus Area for Water Conservation









Campus Green Area, functioned as Water Conservation Area

Description:

Another initiative for water conservation at Iteñas campus was the allocation of some campus areas as designated conservation areas, known as Ruang Terbuka Hijau. In early 2022, the designated area for water conservation was extended in the facade of Iteñas campus, during which the opening ceremony was attended by the Mayor of Bandung City, H. Yana Mulyana, S.E.

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[4] Water (WR)

[4.2] Water Recycling Program Implementation



The preparation





Results of the Plants, Watered by Recycled Water

Description:

Itenas Bandung has started the initiative for water recycling programme, through building a wastewater treatment unit, named Safe Water Garden. With this unit, the wastewater is recycled for watering the plants in Itenas gardens.

The preparation of building SWG can be accessed here:

<https://drive.google.com/file/d/1ReMjL16nm5B75Ik1hWe8W212B1HlAOba/view?usp=sharing>

Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[4] Water (WR)

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



Eco Washer Toilet (Institut Teknologi Nasional, Indonesia)

Description:

Generally, this flush system uses a 3:6 liter ratio where the small button releases 3 liters of water and the large button releases 6 liters of water. However, with the increasing issue of water conservation, the flush system on the toilet seat is made more efficient.

Itenas Bandung has just started using water-efficient appliances, such as 3:4.5 liter systems for dual flush systems. These appliances, as seen in the pictures, have been applied at the Eight Building in Itenas Bandung. The application of these appliances will be improved in the future for all buildings in Itenas Bandung.

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[4] Water (WR)

[4.4] Treated Water Consumed



Consumption of treated water in Itenas

Description:

- Itenas has a portable and simple treatment water unit, as part of its collaboration with the Safe Water Garden and Nazava Filter. The water treatment results in drinking water consumed by employees of Itenas.

The proof of partnership with SWG can be accessed here: <https://safewatergardens.org/our-partners/>

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[4] Water (WR)

[4.5] Water Pollution Control in Campus Area



APA ITU SAFE WATER GARDEN?

Safe Water Garden (SWG) adalah sistem pengolahan limbah terukur yang dikembangkan dari konsep awal UNICEF. Sistem ini dapat digunakan secara individu ataupun komunal.

KESESUAIAN DENGAN SNI

SNI 2398:2017

Tata cara perencanaan tangkiseptik dengan pengolahan lanjutan (sumur resapan, bidang resapan, up flow filter, kolam sanita)

SNI 8466: 2017, Tata cara perencanaan pengolahan air limbah rumah tangga dengan sistem reaktor anaerobik bersekat (SRAB)



HUBUNGI KAMI



Safe Water Gardens Ltd.
www.safewatergardens.org
info@safewatergardens.org



LPPM ITENAS Bandung
Jalan PHH Mustapha 23
lp2n@itenas.ac.id



Fakultas Teknologi Pertanian, UCM
Jalan Flora No. 1, Yogyakarta
fateta@ugm.ac.id

SAFE WATER GARDEN

Solusi Air Limbah Rumah
Tangga



DARI MANA IDE INI BERASAL

Permasalahan sanitasi dapat menimbulkan dampak bagi permasalahan lingkungan hidup secara global. Masih terdapat banyak kasus di Indonesia dimana air limbah dibuang begitu saja di lingkungan sekitar tanpa melalui pengolahan. Akibatnya, banyak terjadinya penurunan kesehatan masyarakat. Secara global seluruh dunia, kurang lebih 2.000 anak meninggal dunia karena masalah kesehatan, 370 diantaranya berada di Indonesia.

MANFAAT SAFE WATER GARDEN

1. Mencegah penyakit bawaan air yang berasal dari air permukaan yang tercemar
2. Meningkatkan status sosial (terhindar dari bau dan mengurangi serangga/nyamuk)
3. Meningkatkan kualitas hidup (sistem bebas perawatan dan aman untuk anak-anak bermain, lingkungan menjadi lebih bersih)
4. Meningkatkan produksi pangan
5. Dampak positif terhadap lingkungan yaitu memberikan nutrisi pada tanah, tidak lagi mencemari sungai dan laut: SWG menghilangkan sumber pakan alga, yang berkontribusi pada pembunuhan kehidupan laut
6. Biaya lebih murah dari pembuatan tangki septik konvensional

BAGAIMANA SWG DITERAPKAN

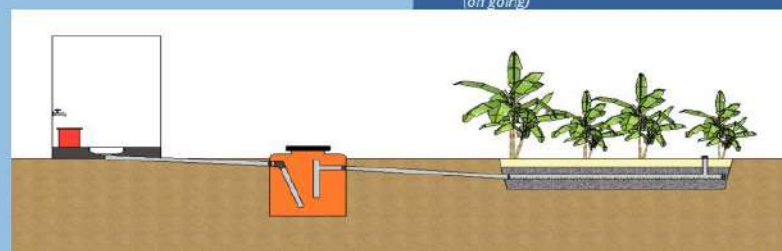
Perencanaan IPAL SWG memiliki unit operasi dan proses yang didesain and konstruksi yang benar dan telah memenuhi ketentuan pada SNI 2398:2017 dan SNI 8466: 2017

IPAL SWG dapat menjadi pilihan teknologi sistem pengelolaan air limbah setempat (SPALDS):

1. Di pedesaan / perumahan yang memiliki pekarangan untuk pemanfaatan pertanian/kebun
2. Layanan 1 KK - 10 KK
3. Daerah dengan muka air tanah lebih dari 2 m
4. Jarak terhadap sumur dangkal/ sumber air min. 10 m
5. Tanaman pangan yang dikembangkan adalah tanaman yang tidak langsung dikonsumsi

SWG telah diterapkan di:

- Bintan, jumlah layanan 490 KK
- Belitung, jumlah layanan 10 KK
- Sumatera Barat, jumlah layanan 3 KK
- Bantul, Yogyakarta, jumlah layanan 3 KK
- Desa Nagrak, dengan jumlah layanan 91 KK (on going)



Description:

Save Water Garden is a scalable waste treatment system developed from the initial UNICEF concept. This system can be used individually or communally.

Sanitation problems can have an impact on global environmental problems. There are still many cases in Indonesia where wastewater is simply disposed of in the surrounding environment without treatment. As a result, there is a lot of decline in public health. Globally, around the world, approximately 2000 children died due to health problems, 370 of which were in Indonesia.

The benefits of SWG are:

1. Prevent diseases caused by polluted surface water,
2. Increase social status (avoid stink and reduce insect/mosquitoes)
3. Improve the life quality (maintenance-free and safe system for children to play, the cleaner environment)
4. Increase food production
5. The positive impact on the environment is to provide nutrients to the soil, no longer polluting rivers and seas.
6. Lower cost than conventional septic tanks.

05

TRANSPORTATION



Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.4] The total number of vehicles (cars and motorcycles) divided by total campus' population

No.	Vehicle	Total Number
1	Car managed by the university	8
2	Cars entering the university	600
3	Motorcycles entering the university	1650
	Total	2258

$$5.4 = 2258 / 7500 \text{ (population)} = 0.301$$

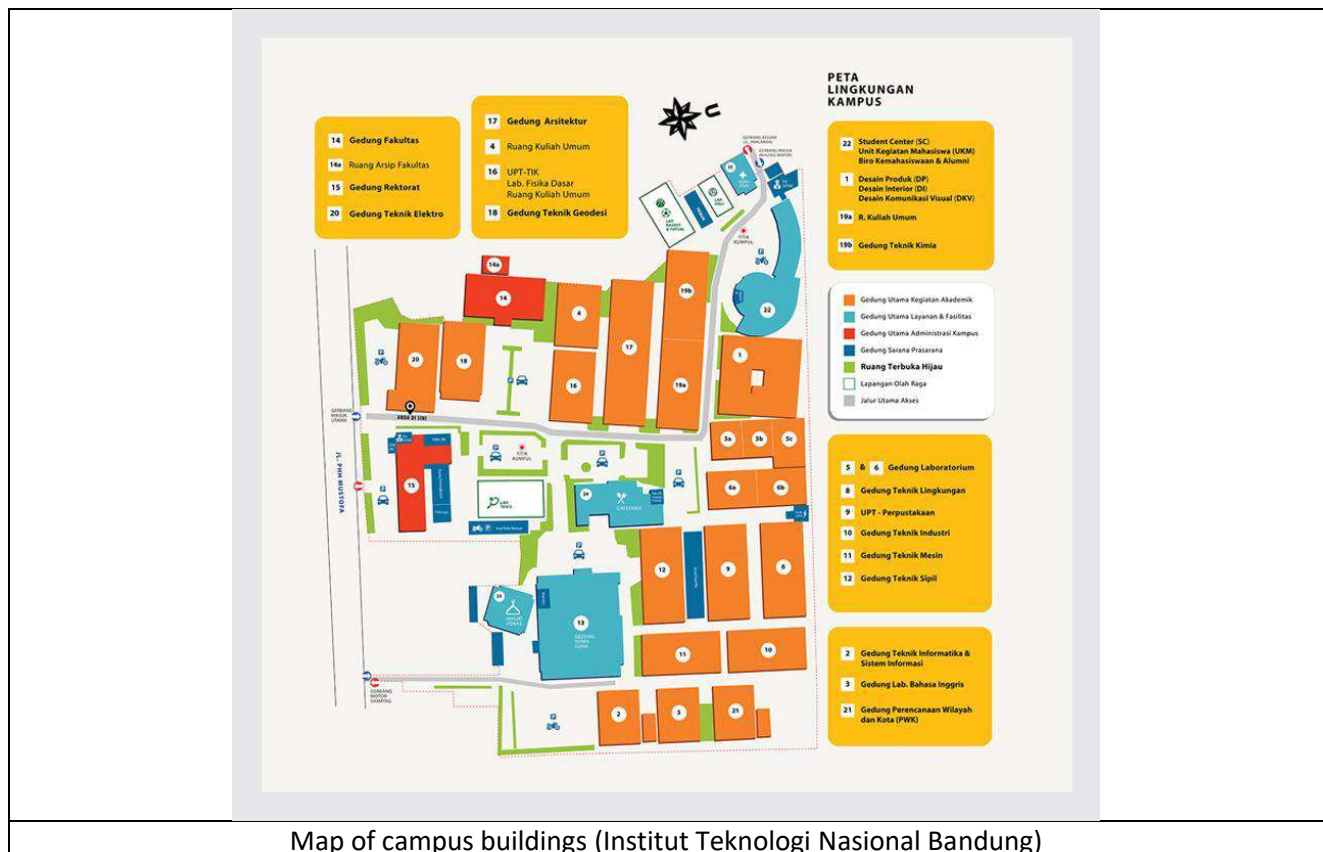
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.5] Shuttle Services



Map of campus buildings (Institut Teknologi Nasional Bandung)

Description:

In Institut Teknologi Nasional Bandung, there's no shuttle services because the campus building is nearby from each other and not quite far therefore it could be reached by walking.

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.9] Zero Emission Vehicles (ZEV) Policy on Campus



Campus bikes parking (Institut Teknologi Nasional Bandung)



Free vehicle emission test (Institut Teknologi Nasional Bandung)

Description:

Institut Teknologi Nasional Bandung sites are cyclist and pedestrian friendly. Many have vehicle-free paths for these users. All sites have cycle racks in a variety of designs. The institute offers free showers to cyclists, runs a "Bike to Work" scheme for staff as well as encouraging cycling through a number of services, events and groups, and providing free bikes to students. "Free vehicle emission test" is also organized by ITENAS and the Transportation Department of Bandung City routinely.

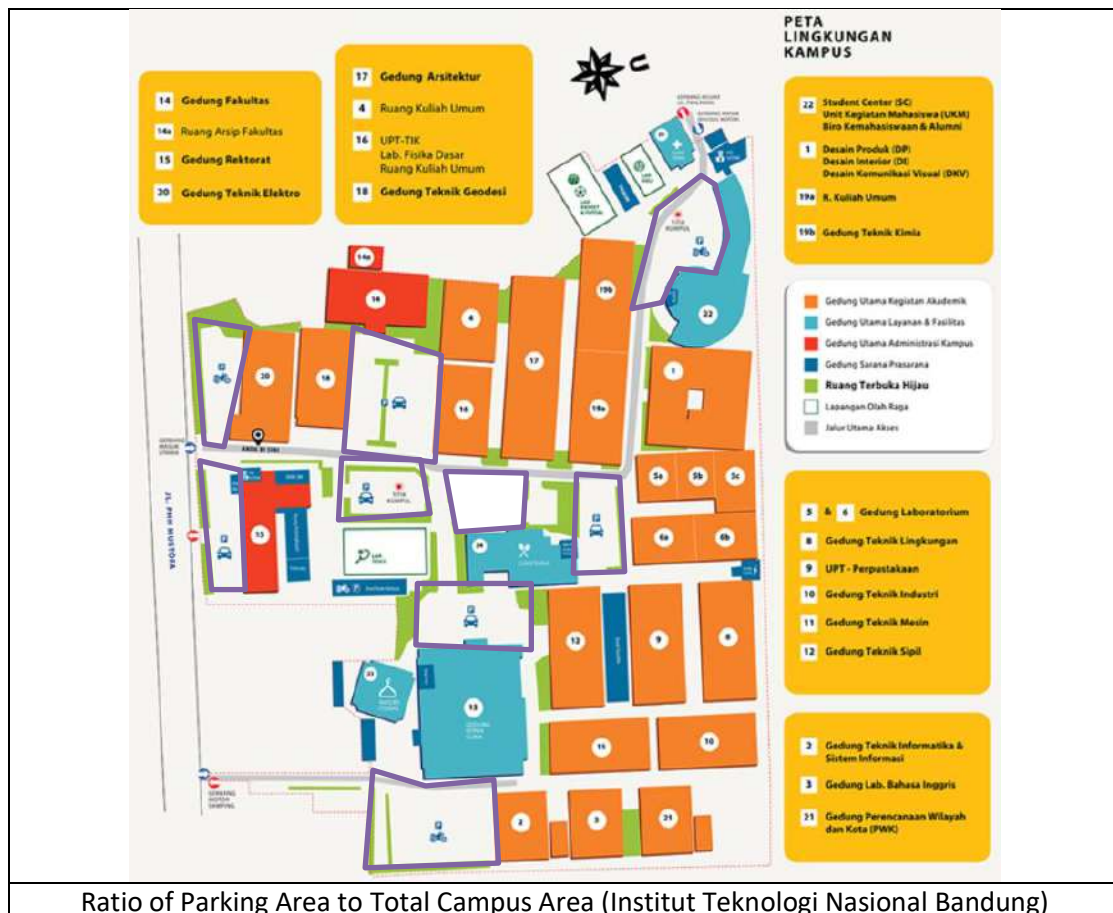
Additional evidence link (i.e., for videos, more images, or other files that are not included in this file):

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.13] Ratio of Parking Area to Total Campus Area



Description:

Total main campus area = 52,213 m²
Total parking area = 3,125 m²
Ratio = 0.06 = 6%

Total area includes basement parking area in Gedung 16, Gedung 17, Gedung 18 and Gedung 22.

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.14] Program to limit or decrease the parking area on campus for the last 3 years (from 2018 to 2020)

	
Parking sticker for lecturer and academic staff only	Charging parking fees
	
Rideshare organized by each department	

Description:

1. Parking sticker for lecturers and academic staff only.
2. Charging parking fee.
3. Rideshare organized by each department to adopt healthy and sustainable transportation options.

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

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.15] Number of Transportation Initiatives to Decrease Private Vehicles on Campus



Charging parking fees



Ride sharing organized by each department



Description:

Charging parking fees is one of the initiatives to decrease private vehicles (especially for students) on campus ITENAS. The other initiatives are ride sharing that is organized by each department on campus ITENAS. Bike to campus is also another initiative to decrease private vehicles (especially for students).

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

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : www.itenas.ac.id

[5] Transportation (TR)

[5.16] Pedestrian Path Policy on Campus



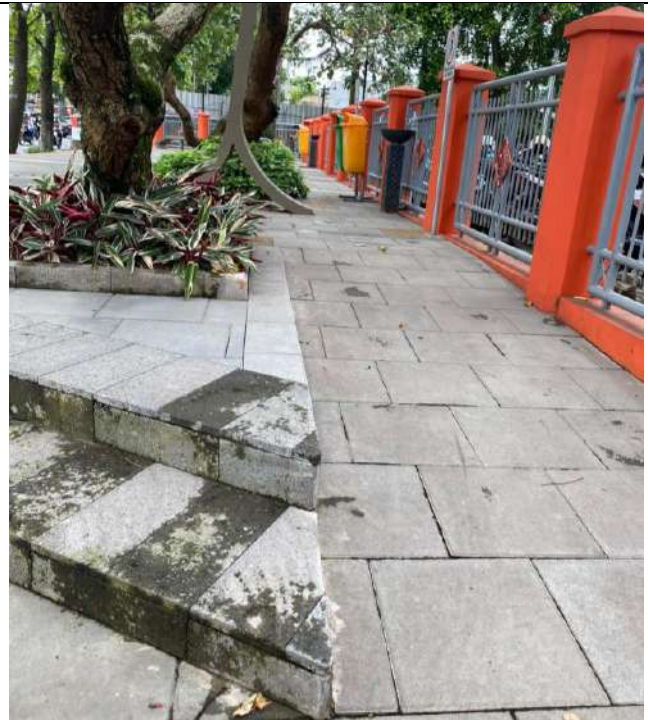
Pedestrian path (Institut Teknologi Nasional Bandung, Indonesia)



Pedestrian path (Institut Teknologi Nasional Bandung, Indonesia)



Pedestrian path



Pedestrian path



Pedestrian path (Institut Teknologi Nasional Bandung, Indonesia)

Description:

1. Separator between road for vehicle and pedestrian path.
2. Canopies which have suitable design for pedestrian users to protect from intensity of rain.
3. Ramps and guiding blocks which have suitable design for pedestrian having physical disabilities.

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

06

EDUCATION



Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
 Country : Indonesia
 Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

[6.1] Number of Courses/Subjects Related to Sustainability Offered

TLA-308	PENYALURAN AIR LIMBAH	3	SEWERAGE SYSTEM	A					
TLA-309	PENCEMARAN UDARA	3	AIR POLLUTION	A					
TLA-310	PENGENDALIAN PENCEMARAN UDARA	2	AIR POLLUTION CON	A					
TLA-311	KESEHATAN DAN KESELAMATAN KERJA	2	OCCUPATIONAL HEA	A					
TLA-312	EKOLOGI TERAPAN	2	APPLIED ECOLOGY	A					
TLA-351	AUDIT LINGKUNGAN	2	ENVIRONMENTAL AL	A					
TLA-352	SISTEM MANAJEMEN K3	2	OCCUPATIONAL HEA	A					
TLA-353	HUKUM DAN KEBIJAKAN LINGKUNGAN	2	ENVIRONMENTAL LA	A					
TLA-354	TEKNIK PENGUMPULAN & PENGANGKUTAN SAMPAH	2	SOLID WASTE COLLE	A					
TLA-355	PENGENDALIAN BISING	2	NOISE CONTROL	A					
TLA-356	DAUR ULANG & PEMANFAATAN LIMBAH	2	SOLID WASTE RECYC	A					
TLA-401	DESAIN PENGOLAHAN AIR LIMBAH	4	WASTEWATER TREAT	A					
TLA-402	ANALISIS MENGENAI DAMPAK LINGKUNGAN	3	ENVIRONMENTAL IM	A					
TLA-403	DASAR PERANCANGAN DESAIN DAN PENELITIAN	2	RESEARCH METHOD	A					
TLA-405	DESAIN PEMROSESAN AKHIR SAMPAH	3	SOLID WASTE FINAL	A					
TLA-407	PENGOLAHAN LIMBAH B3 DAN INDUSTRI	3	INDUTRIAL AND HAZ	A					
TLA-409	KEWIRAUSAHAAN	2	ENTREPRENEURSHIP	A					
TLA-451	TOKSIKOLOGI LINGKUNGAN	2	ENVIRONMENTAL TC	A					
TLA-452	LIMBAH DAN ENERGI TERBARUKAN	2	WASTE AND RENEW/A	A					
TLA-453	PENGELOLAAN KUALITAS UDARA	2	AIR QUALITY MANAGA	A					
TLA-454	PEMODELAN TEKNIK LINGKUNGAN	2	ENVIRONMENTAL EN	A					
TLA-455	EKONOMI LINGKUNGAN & VALUASI	2	ENVIRONMENTAL ECA	A					
TLA-456	EKOLOGI INDUSTRI	2	INDUSTRIAL ECOLOG	A					
TLA-499	TEKNOLOGI LINGKUNGAN TEPAT GUNA	3	ENVIRONMENTAL AFA	A					
TLA-500	TUGAS AKHIR	6	FINAL PROJECT	A					

TL--338	PENGENDALIAN PENCEMARAN UDARA	2	AIR POLLUTION CON A				
TL--339	TLTG	2	APPROPRIATE ENVIR A				
TL--340	PENGELOLAAN KONSERVASI LINGKUNGAN	3	ENVIRONMENTAL M A				
TL--341	PENGELOLAAN K-3	2	OCCUPATONAL HEAL A				
TL--343	PENCEMARAN UDARA	3	AIR POLLUTION A				
TL--442	AMDAL	3	ENVIRONMENTAL IVA				
TL--444	HUKUM LINGKUNGAN	2	ENVIRONMENTAL LAA				
TL--445	DESAIN PENGOLAHAN BIOLOGI	4	BIOLOGICAL TREATNA				
TL--446	TEKNOLOGI BERSIH	2	CLEANER PRODUCTI A				
TL--447	KEWIRAUSAHAAN	3	ENTREPREUNERSHIP A				
TL--449	TEKNIK PEMBUANGAN AKHIR SAMPAH	3	SOLID WASTE DISPO A				
TL--471	DAUR ULANG & PEMANFAATAN LIMBAH	2	RECYLING AND WASTA				
TL--473	ANALISIS SISTEM PENGELOLAAN LINGKUNGAN	2	ANALYSIS OF ENVIRO A				
TL--475	AUDIT LINGKUNGAN	2	ENVIRONMENTAL ALA				
TL--477	EKONOMI LINGKUNGAN & VALUASI	2	VALUATION AND ENVA				
TL--479	TRANSPORTASI SAMPAH	2	SOLID WASTE TRANSA				
TL--480	TEKNIK PENGOLAHAN BUANGAN PADAT	2	SOLID WASTE TREAT A				
TL--482	PEMODELAN TEKNIK LINGKUNGAN	2	ENVIRONMENTAL MA				
TL--484	TOKSIKOLOGI LINGKUNGAN	2	ENVIRONMENTAL TCA				
TL--490	KERJA PRAKTEK	2	FIELD WORK A				
TL--500	TUGAS AKHIR	6	FINAL PROJECT A				
TLA-102	KIMIA LINGKUNGAN	3	ENVIRONMENTAL CA				
TLA-103	PENGANTAR TEKNIK LINGKUNGAN	2	INTRODUCTION TO EA				
TLA-104	STATISTIKA LINGKUNGAN	3	STATISTICS FOR ENVA				
TLA-106	MIKROBIOLOGI LINGKUNGAN	3	ENVIRONMENTAL MA				
TLA-107	FISIKA LINGKUNGAN	3	ENVIRONMENTAL PA				
TL--111	DASAR EKOLOGI	2	INTRODUCTION TO EA				
TL--112	STATISTIKA LINGKUNGAN	3	ENVIRONMENTAL ST A				
TL--113	FISIKA LINGKUNGAN	3	ENVIRONMENTAL PA A				
TL--114	MIKROBIOLOGI LINGKUNGAN	3	ENVIRONMENTAL M A				
TL--115	KIMIA DASAR	3	BASIC CHEMISTRY A				
TL--117	PENG. TEKNIK LINGKUNGAN	2	INTRODUCT. TO ENVA				
TL--118	KIMIA ANALITIK	3	ANALYTICAL CHEMISA				
TL--219	KIMIA & LAB. LINGKUNGAN I	4	CHEMISTRY AND ENVA				
TL--220	KIMIA & LAB. LINGKUNGAN II	4	CHEMISTRY AND ENVA				
TL--221	SUMBER DAYA AIR	2	WATER RESOURCES A				
TL--222	BISING	2	NOISE POLLUTION A				
TL--223	PENG. INFORMASI GEOGRAFIS	2	INTRODUCT. TO GECA				
TL--224	PENYEDIAAN AIR MINUM	4	WATER SUPPLY ENGI A				
TL--225	ILMU PEMBERDAYAAN MASYARAKAT	2	COMMUNITY EMPOLA				
TL--226	EPIDEMIOLOGI	2	ENVIRONMENTAL EPA				
TL--227	HIDROLOGI & GEOHIDROLOGI	3	HIDROLOGY & GEOHA				
TL--228	MEKANIKA TANAH	2	SOIL MECHANICS A				
TL--229	KESEHATAN LINGKUNGAN	2	ENVIRONMENTAL HEA				
TL--231	MEKANIKA FLUIDA	3	FLUIDS MECHANICS A				
TL--330	MANAJEMEN PROYEK	2	PROJECT MANAGEM A				
TL--332	DESAIN PENGOLAHAN FISIKA - KIMIA II	6	PHYSICAL & CHEMIC A				
TL--333	PLUMBING	3	PLUMBING A				
TL--334	BAHAN BERBAHAYA & BERACUN	2	HAZARDOUS WASTE A				
TL--335	DESAIN PENGOLAHAN FISIKA - KIMIA I	6	PHYSICAL AND CHEM A				
TL--336	PENYALURAN AIR BUANGAN + DRAINASE	4	DRAINAGE & WASTE A				
TL--337	PERSAMPAHAN	3	SOLID WASTE MANA A				

Description:

Above are some the courses which has strong sustainability content.

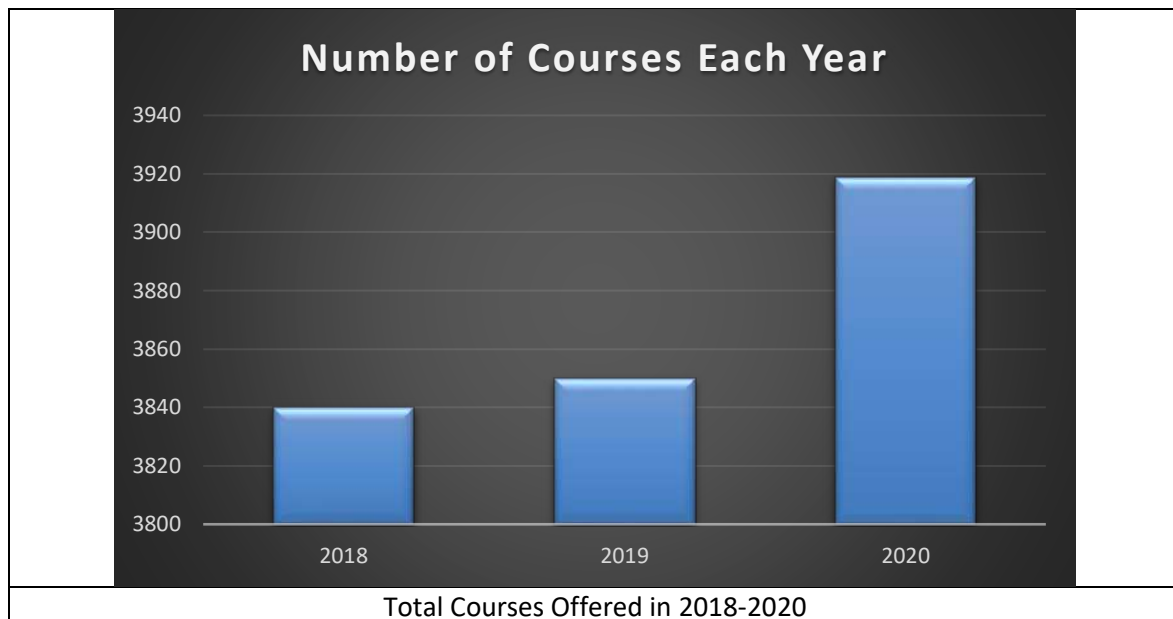
Total number of courses with sustainability embedded for courses running in 2020: 550 courses

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

[6.2] 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.)

2018	3.840
2019	3.850
2020	3.919

Total number of courses offered in 2020 = 3.919 courses

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

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



Electricity Vehicle





Safe Water Garden

Description:

Total research fund dedicated to sustainability research in 2018 = 158,083 US Dollars

Total research fund dedicated to sustainability research in 2019 = 161,453 US Dollars

Total research fund dedicated to sustainability research in 2020 = 299,068 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 206,201 US Dollars

DISTRIBUSI PEROLEHAN HIBAH PENELITIAN TH 2020						
No	Nama Ketua	Anggota	Jur	Judul Penelitian	Sumber Dana	Nilai Hibah
1	Asep Nana Hermana, Ir., MT	Milda Gustiana Husada, Ir., M.Eng.	IF	Otomatisasi Klasifikasi Kematangan Buah Berdasarkan Semantic Template Warna, Tekstur, dan Shape dengan teknik SVM	Penelitian Dasar (Lanjutan)	Rp 61,655,000
2	Dr. Soni Darmawan, ST., MT.	Dr. Dewi Kania Sari, Ir., MT.; Ir. Ketut Wikantika, M.Eng. Ph.D.	GO	Pengembangan model estimasi biomassa mangrove berbasis teknologi geospasial untuk pemetaan dan manajemen hutan mangrove berkelanjutan sebagai upaya mitigasi perubahan iklim di Indonesia	Penelitian Dasar (Lanjutan)	Rp 121,340,000
3	Dr. Andry Masri, M.Sn.	Dedy Ismail, S.Sn., M.Ds.; Caecilia Sri W.S., Ir., MT.	DP	Perancangan Industri Kreatif subsektor Craft berbahan baku Bonggol Jagung	Penelitian Terapan (Lanjutan)	Rp 221,470,000
4	Dr. Ir. Maya Ramadanti Musadi, MT.	Marthen Luther Doko, Ir., MT.; Suparman Juhanda, Ir., M.Eng.	TK	Pembuatan Bahan Bakar Cair dari Oli Bekas Melalui Metode Pirolisis-Fraksinasi Terpadu	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 98,934,000
5	Dr. rer. Nat. Riny Yolanda Parapat, ST., MT., M.Sc.	Dr. Imam Aschuri, Ir., MT.; Jono Suhartono, ST, MT, Ph.D	TK	Pembuatan Nanoaspal Emulsi Secara Insitu dari Batuan Asbuton dengan Teknologi Mikroemulsi	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 299,843,000
6	Dr. Tarsisius Kristiyadi, ST., MT.	Liman Hartawan, ST., MT.; Dr. Ing. Mohammad Alexin Putra	MS	Pengembangan Kendaraan Listrik Taktis Sergap Senyap Untuk Mendukung Industri Pertahanan Nasional	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 295,175,000
7	Dr. Tarsisius Kristiyadi, ST., MT.	Syahrii Sayuti, Ir., MT.; Marsono, ST., MT.	MS	Penggerak Mobil Listrik Berbasis Brushless Direct Current Motor Berpendingin Cairan	Penelitian Terapan Unggulan Perguruan Tinggi	Rp 114,725,000
8	Mohamad Arif Waskito, S.Sn., M.Ds.	Asep Nana Hermana, Ir., MT.	DP	Peningkatan Kualitas Desain Di IKM Alas Kaki Melalui Pemanfaatan Teknologi Digital	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 203,149,000
9	Dr. Waluyo, MT.	Andre Widura, ST., MT.; Febrian Hadiatna, ST., MT.	EL	Rancang Bangun Sistem Smart Grid Dalam Menunjang Smart Building dan Green Building Berbasis Scada-Ion Sebagai Implementasi Green Campus Energy Management System	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 199,310,000
10	Lisa Kristiana, ST., MT.	Lita Lidyawati, ST., MT.; Irma Amelia Dewi, S.Kom., MT.	IF	Vehicular Visible Light Communication for Smart Transportation Network	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 119,920,000
11	Prof. Melinda Nurbanasari, ST., MT., Ph.D.	Yusrii Irawan, ST., MT.; Marsono, S.T, MT	MS	Alternatif Sumber Energi Baru Dengan Memanfaatkan Potensi Sumber Daya Alam Indonesia Pada Sistem Solid Oxide Fuel Cell	Penelitian Dasar Unggulan Perguruan Tinggi (Lanjutan)	Rp 72,550,000
12	Lucia Jambola, ST, MT.	Lita Lidyawati, ST., MT.	EL	Multimedia Underwater Visible Light Communication (UVLC) untuk Transportasi Bawah Laut	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 134,910,000
13	Dr. Soni Darmawan, ST., MT.	Dr. Widya Suryadini, Dr. Eng. Didin Agustian Permadi, Rika Hernawati, S.T., M.T, Dr. Dede Dirgahayu D, Ir. Ita Carolita, M.Si, Dr. Agustan	GO	Pengembangan Model/Metode Klasifikasi Umur Pertumbuhan Perkebunan Kelapa Sawit Berbasis Citra Satelit Penginderaan Jauh Untuk Tata Kelola Perkebunan Kelapa Sawit Nasional	RISPRO	Rp 350,000,000
						Rp 2,292,981,000

DISTRIBUSI PEROLEHAN HIBAH PENELITIAN TH 2020						
No	Nama Ketua	Anggota	Jur	Judul Penelitian	Sumber Dana	Nilai Hibah
1	Asep Nana Hermana, Ir., MT	Milda Gustiana Husada, Ir., M.Eng.	IF	Otomatisasi Klasifikasi Kematangan Buah Berdasarkan Semantic Template Warna, Tekstur, dan Shape dengan teknik SVM	Penelitian Dasar (Lanjutan)	Rp 61,655,000
2	Dr. Soni Darmawan, ST., MT.	Dr. Dewi Kania Sari, Ir., MT.; Ir. Ketut Wikantika, M.Eng. Ph.D.	GO	Pengembangan model estimasi biomassa mangrove berbasis teknologi geospasial untuk pemetaan dan manajemen hutan mangrove berkelanjutan sebagai upaya mitigasi perubahan iklim di Indonesia	Penelitian Dasar (Lanjutan)	Rp 121,340,000
3	Dr. Andry Masri, M.Sn.	Dedy Ismail, S.Sn., M.Ds.; Caecilia Sri W.S., Ir., MT.	DP	Perancangan Industri Kreatif subsektor Craft berbahan baku Bonggol Jagung	Penelitian Terapan (Lanjutan)	Rp 221,470,000
4	Dr. Ir. Maya Ramadanti Musadi, MT.	Marthen Luther Doko, Ir., MT.; Suparman Juhanda, Ir., M.Eng.	TK	Pembuatan Bahan Bakar Cair dari Oli Bekas Melalui Metode Pirolisis-Fraksinasi Terpadu	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 98,934,000
5	Dr. rer. Nat. Riny Yolanda Parapat, ST., MT., M.Sc.	Dr. Imam Aschuri, Ir., MT.; Jono Suhartono, ST, MT, Ph.D	TK	Pembuatan Nanoaspal Emulsi Secara Insitu dari Batuan Asbuton dengan Teknologi Mikroemulsi	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 299,843,000
6	Dr. Tarsisius Kristiyadi, ST., MT.	Liman Hartawan, ST., MT.; Dr. Ing. Mohammad Alexin Putra	MS	Pengembangan Kendaraan Listrik Taktis Sergap Senyap Untuk Mendukung Industri Pertahanan Nasional	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 295,175,000
7	Dr. Tarsisius Kristiyadi, ST., MT.	Syahrii Sayuti, Ir., MT.; Marsono, ST., MT.	MS	Penggerak Mobil Listrik Berbasis Brushless Direct Current Motor Berpendingin Cairan	Penelitian Terapan Unggulan Perguruan Tinggi	Rp 114,725,000
8	Mohamad Arif Waskito, S.Sn., M.Ds.	Asep Nana Hermana, Ir., MT.	DP	Peningkatan Kualitas Desain Di IKM Alas Kaki Melalui Pemanfaatan Teknologi Digital	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 203,149,000
9	Dr. Waluyo, MT.	Andre Widura, ST., MT.; Febrian Hadiatna, ST., MT.	EL	Rancang Bangun Sistem Smart Grid Dalam Menunjang Smart Building dan Green Building Berbasis Scada-Ion Sebagai Implementasi Green Campus Energy Management System	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 199,310,000
10	Lisa Kristiana, ST., MT.	Lita Lidyawati, ST., MT.; Irma Amelia Dewi, S.Kom., MT.	IF	Vehicular Visible Light Communication for Smart Transportation Network	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 119,920,000
11	Prof. Melinda Nurbanasari, ST., MT., Ph.D.	Yusrii Irawan, ST., MT.; Marsono, S.T, MT	MS	Alternatif Sumber Energi Baru Dengan Memanfaatkan Potensi Sumber Daya Alam Indonesia Pada Sistem Solid Oxide Fuel Cell	Penelitian Dasar Unggulan Perguruan Tinggi (Lanjutan)	Rp 72,550,000
12	Lucia Jambola, ST, MT.	Lita Lidyawati, ST., MT.	EL	Multimedia Underwater Visible Light Communication (UVLC) untuk Transportasi Bawah Laut	Penelitian Terapan Unggulan Perguruan Tinggi (Lanjutan)	Rp 134,910,000
13	Dr. Soni Darmawan, ST., MT.	Dr. Widya Suryadini, Dr. Eng. Didin Agustian Permadi, Rika Hernawati, S.T., M.T, Dr. Dede Dirgahayu D, Ir. Ita Carolita, M.Si, Dr. Agustan	GO	Pengembangan Model/Metode Klasifikasi Umur Pertumbuhan Perkebunan Kelapa Sawit Berbasis Citra Satelit Penginderaan Jauh Untuk Tata Kelola Perkebunan Kelapa Sawit Nasional	RISPRO	Rp 350,000,000
						Rp 2,292,981,000

Research Fund 2018, 2019, 2020						
--------------------------------	--	--	--	--	--	--

Description:

Total research fund dedicated to sustainability research in 2018 = 158,083 US Dollars

Total research fund dedicated to sustainability research in 2019 = 161,453 US Dollars

Total research fund dedicated to sustainability research in 2020 = 299,068 US Dollars

The averaged annum last 3 years of research fund dedicated to sustainability research = 206,201 US Dollars

Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

[6.7] Number of scholarly publications on sustainability

--

About 1,930 results (0.05 sec)

Indicator-based water sustainability assessment—A review

[PDF] core.ac.uk

I Juwana, N Muttil, BJC Perera - Science of the Total Environment, 2012 - Elsevier

In the past few decades, there have been extensive efforts on measuring sustainability. One example is the development of assessment tools based on sustainability indicators. Several individuals and organisations have suggested various indices for assessing sustainability ...

☆ 99 Cited by 199 Related articles All 15 versions

A water sustainability index for West Java. Part 1: Developing the conceptual framework

[PDF] vu.edu.au

I Juwana, BJC Perera, N Muttil - Water Science and Technology, 2010 - iwaponline.com

Sustainable water resources management is essential since it ensures the integration of social, economical and environmental issues into all stages of water resources management. The development and application of water sustainability indices to achieve ...

☆ 99 Cited by 47 Related articles All 11 versions

Application of west java water sustainability index to three water catchments in west java, Indonesia

[PDF] researchgate.net

I Juwana, N Muttil, BJC Perera - Ecological indicators, 2016 - Elsevier

This study presents a comparative application of the West Java Water Sustainability Index to Citarum, Ciliwung and Citanduy catchments in West Java, Indonesia. A two-fold comparison is presented, firstly, that of the overall condition of water resources using the final index ...

☆ 99 Cited by 31 Related articles All 8 versions

A water sustainability index for West Java—Part 2: refining the conceptual framework using Delphi technique

[PDF] vu.edu.au

I Juwana, BJC Perera, N Muttil - Water Science and Technology, 2010 - iwaponline.com

In the first paper of this two-part series on the development of a water sustainability index for West Java, a conceptual framework of West Java Water Sustainability Index (WJWSI) was developed. It consists of three main parts: components, indicators/sub-indicators and ...

☆ 99 Cited by 47 Related articles All 12 versions

Uncertainty and sensitivity analysis of West Java Water Sustainability Index—A case study on Citarum catchment in Indonesia

[PDF] vu.edu.au

I Juwana, N Muttil, BJC Perera - Ecological indicators, 2016 - Elsevier

Water sustainability indices have been recently used to measure the sustainability of water resources within a catchment. Developing a sustainability index involves various steps, some of which have uncertainties associated with them. For the recently developed West ...

☆ 99 Cited by 23 Related articles All 10 versions

[PDF] Conceptual framework for the development of West Java water

[PDF] researchgate.net

Tip: Search for **English** results only. You can specify your search language in Scholar Settings.

Implementasi konsep green campus di Kampus **Itenas** Bandung berdasarkan kategori tata letak dan infrastruktur

[PDF] itenas.ac.id

ND Santoso, E Akmalah... - RekaRacana: Jurnal Teknil ..., 2017 - ejurnal.itenas.ac.id
... Penelitian ini bertujuan untuk mengetahui penerapan konsep green campus dalam kategori tata letak dan infrastruktur di kampus **Itenas**. Observasi, ... Hal ini menunjukkan bahwa pemahaman pengelola **Itenas** mengenai **sustainable** development sebenarnya sudah cukup baik. ...
☆ ⓘ Cited by 5 Related articles All 2 versions ⓘ

Sustainable Site: Kenyamanan Spasial pada Ruang Terbuka Publik Kampus **Itenas** Bandung

[PDF] itenas.ac.id

D Kustianingrum, E Virdianti... - RekaRacana: Jurnal ..., 2018 - ejurnal.itenas.ac.id
Ruang terbuka publik di kawasan kampus **Itenas** terbentuk dari pola tatanan massa yang dapat bersifat katalisator bagi perkembangan interaksi dan komunitas civitas akademika. Interaksi antar civitas akademika dapat terjadi karena kenyamanan beraktifitas. Ruang yang ...
☆ ⓘ Cited by 1 Related articles All 2 versions ⓘ

Kajian Kategori Education pada Pelaksanaan Green Campus di **Itenas**

[PDF] itenas.ac.id

RD Shima, M Wimala, E Akmalah - RekaRacana: Jurnal Teknil ..., 2016 - ejurnal.itenas.ac.id
... Demi terciptanya lingkungan pendidikan **Itenas** yang sesuai dengan program Renstra Penelitian **Itenas**, maka pengukuran pada penelitian ini ... Jumlah penelitian **Itenas** masih dibawah rata-rata Greenmetric UI (Tabel 4), karena topik **sustainability** baru menjadi salah satu topik ...
☆ ⓘ Cited by 2 Related articles ⓘ

Rekomendasi Arahan Rancangan Fisik Ruang Terbuka Publik **Itenas** berdasarkan **Sustainable Site**

[PDF] itenas.ac.id

D Kustianingrum, WI Tyas, E Virdianti - 2018 - eprints.itenas.ac.id
Kampus dapat menjadi sample kota dalam skala kecil, terdiri berbagai ragam komunitas, budaya dengan kepentingan serta tujuan yang berbeda. Ruang terbuka publik di kawasan kampus **Itenas** menjadi suatu kasus yang menarik untuk di teliti dilihat dari sudut pandang ...
☆ ⓘ Related articles ⓘ

KRITERIA KONEKTIFITAS DALAM **SUSTAINABLE SITE** STUDI KASUS: RUANG TERBUKA PUBLIK KAMPUS **ITENAS** BANDUNG

D Kustianingrum, E Virdianti... - ... Nasional **Itenas**, 2017 - eprints.itenas.ac.id
Ruang luar yang terbentuk akibat fungsi dan tatanan massa bangunan dan terhubung dengan sistem ekologi sekitar. Sebuah ruang terbuka publik akan menjadi daya tarik suatu kawasan sebagai tempat beraktifitas. Kampus **Itenas** merupakan kawasan pendidikan ...
☆ ⓘ ⓘ

The Relationship Patterns of **Itenas** Open Spaces as the Keystones for Regenerative Design

[PDF] 103.151.226.122

D Kustianingrum, WI Tyas... - ... and **Sustainability**, 2019 - 103.151.226.122
Public open spaces designs determine the patterns of natural balance. In order to preserve its **sustainability**, regenerative design should be applied. As the main step of its application,

Scholarly publications on sustainability

Description:

The number of publications related to sustainability in the year of 2020 is 139
A total average per annum over the last 3 years of **153 publications**

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

[6.8] Number of student organizations related to sustainability

Himpunan Mahasiswa Planologi (HMPL)



Visi :

Menjadikan HMPL menjadi organisasi yang menjunjung tinggi kebersamaan dan Berorientasi pada pengembangan sumber daya manusia

Misi :

1. Mewadahi seluruh anggota HMPL dalam pengembangan potensi baik akademik maupun non akademik
2. Memperluas dan memperkuat jaringan Eksternal dan Internal untuk meningkatkan eksistensi HMPL Itenas
3. Memberikan kontribusi yang sesuai dengan peran dan fungsi mahasiswa seluruh keluarga besar HMPL

Struktur Organisasi :

Himpunan Mahasiswa Teknik Lingkungan (HMTL)



Visi :

Mewujudkan HMTL Itenas menjadi sebuah organisasi kemahasiswaan yang berkarakter, mempunyai rasa kekeluargaan, dan menjadi wadah aspirasi bagi anggota HMTL Itenas baik dalam bidang akademik maupun non akademik

Misi :

1. Meningkatkan kualitas dan prestasi anggota HMTL Itenas dalam bidang akademik maupun non akademik
2. Meningkatkan rasa kebersamaan dan kekeluargaan antara elemen HMTL Itenas itu sendiri
3. Menjadikan HMTL Itenas sebagai media untuk menampung dan menyalurkan aspirasi setiap anggotanya

Struktur Organisasi :

Himpunan Mahasiswa Teknik Kimia (HMTK)



Visi :

Merangkai HMTK sebagai organisasi yang memiliki jiwa loyalitas dan profesionalisme yang didasari azas kekeluargaan untuk mewujudkan Tri dharma perguruan tinggi.

Misi :

1. Membangun pola koordinasi yang efektif antar anggota HMTK sehingga dapat menimbulkan kedekatan dan komunikasi yang baik satu sama lain.
2. Menata HMTK sebagai rumah bagi anggotanya dalam upaya meningkatkan rasa kepemilikan terhadap HMTK
3. Meningkatkan dan mensinergikan potensi akademik dan non akademik mahasiswa teknik kimia
4. Melahirkan kader yang memiliki sikap profesionalisme

Struktur Organisasi :

Himpunan Pecinta Alam (HIMPALA)



TUJUAN :

- Menampung minat dan bakat mahasiswa ITENAS BANDUNG dalam bidang kepecintaalaman
- Membina, mengembangkan, meningkatkan kemampuan dan keterampilan anggota di bidang kepecintaalaman
- Mewujudkan pengabdian kepada masyarakat.

USAHA :

- Memfasilitasi minat dan bakat mahasiswa ITENAS BANDUNG
- Mempersiapkan dan melaksanakan Program Pembinaan dan Pengembangan
- Melaksanakan dan ikut serta aktif dalam kegiatan kemanusiaan dan/atau kemasyarakatan
- Melaksanakan dan mengembangkan sistem organisasi yang sistematis.

Student organizations Related to Sustainability

Description:

We 18 student organisations related to sustainability, as shown in the evidences above.

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

[6.12] Sustainability Report



THE GLOBAL GOALS

it's
good
start

Kampus
Merdeka
INDONESIA JAYA

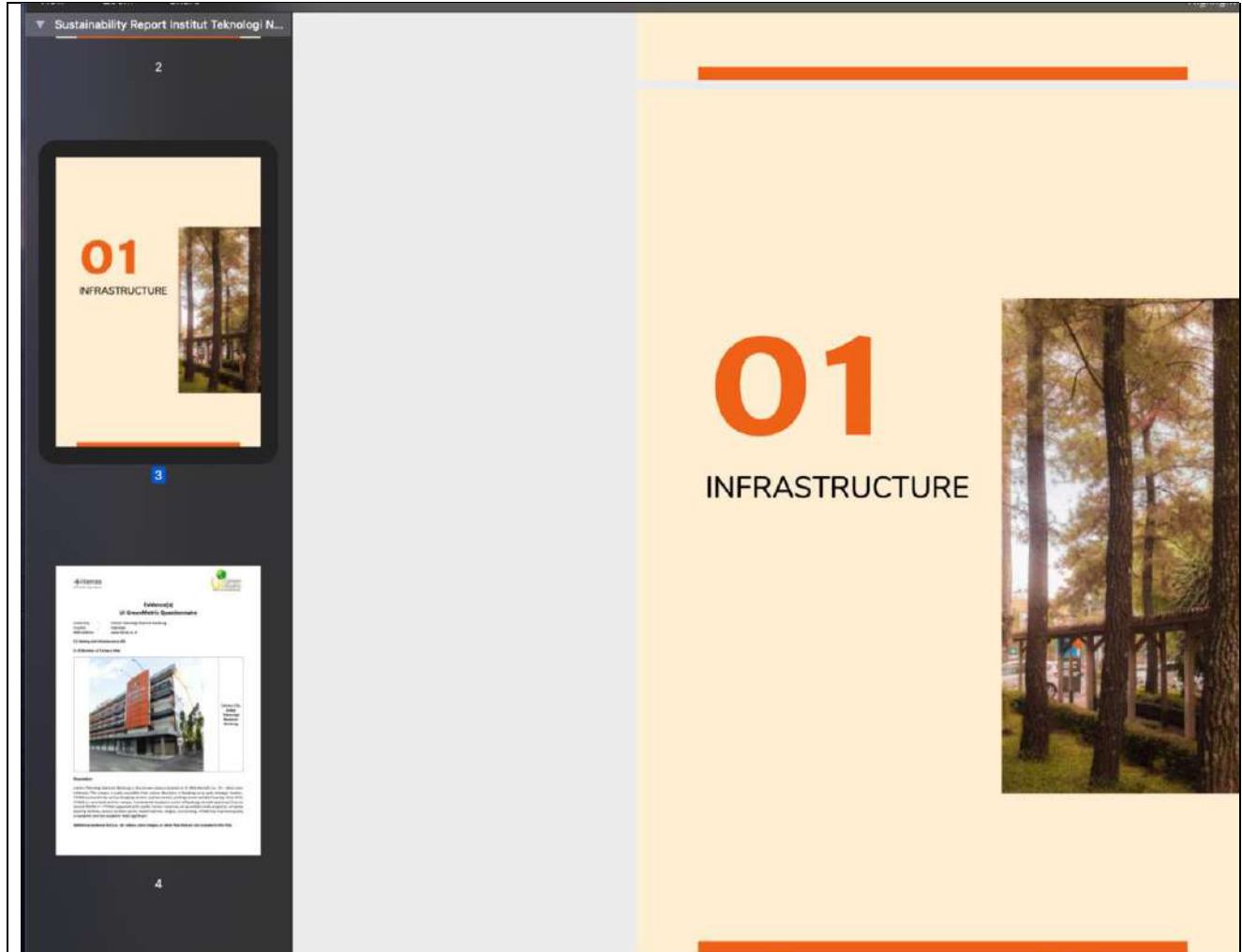
 **itenas**

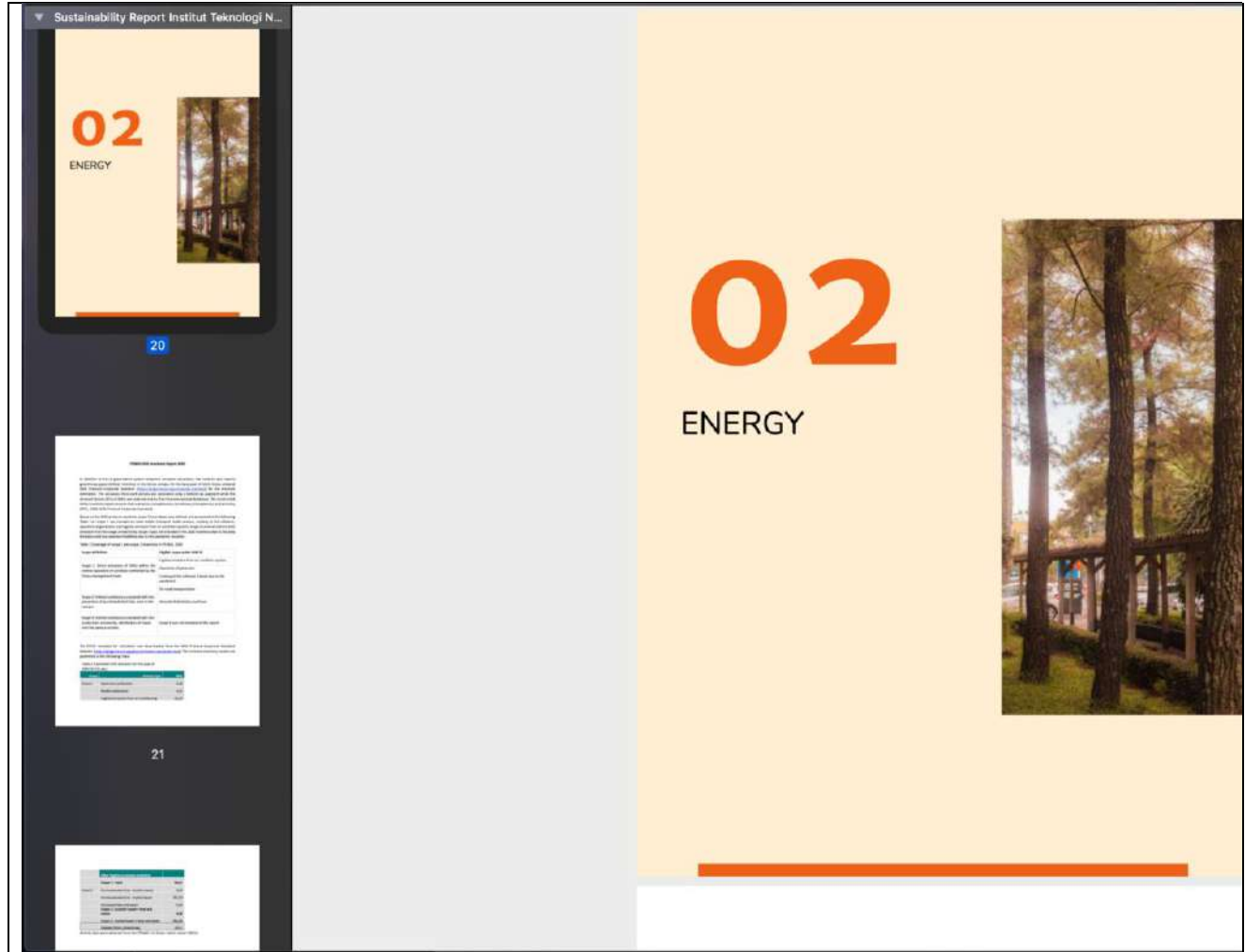
2021

INSTITUT TEKNOLOGI
NASIONAL BANDUNG

SUSTAINABILITY REPORT









36

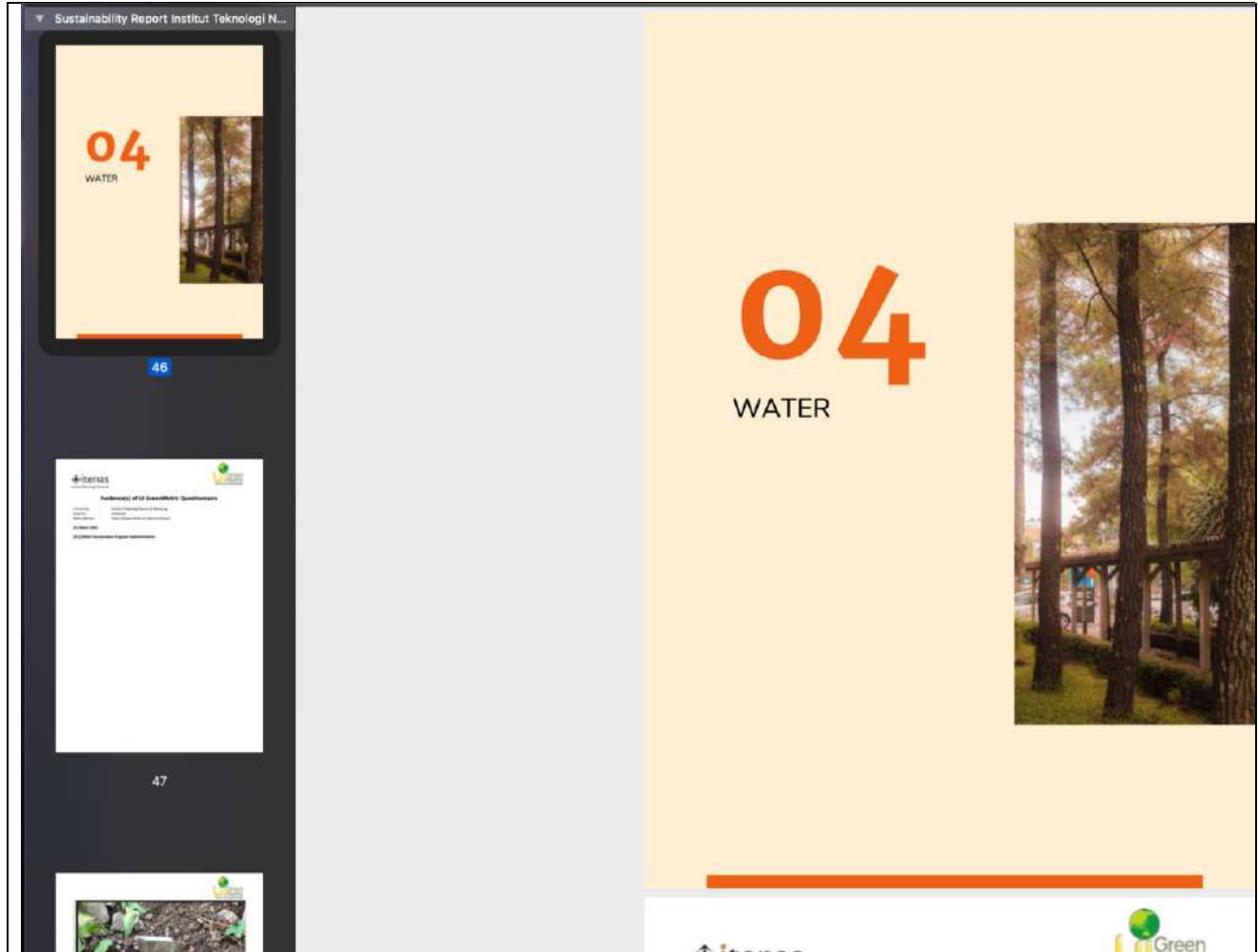


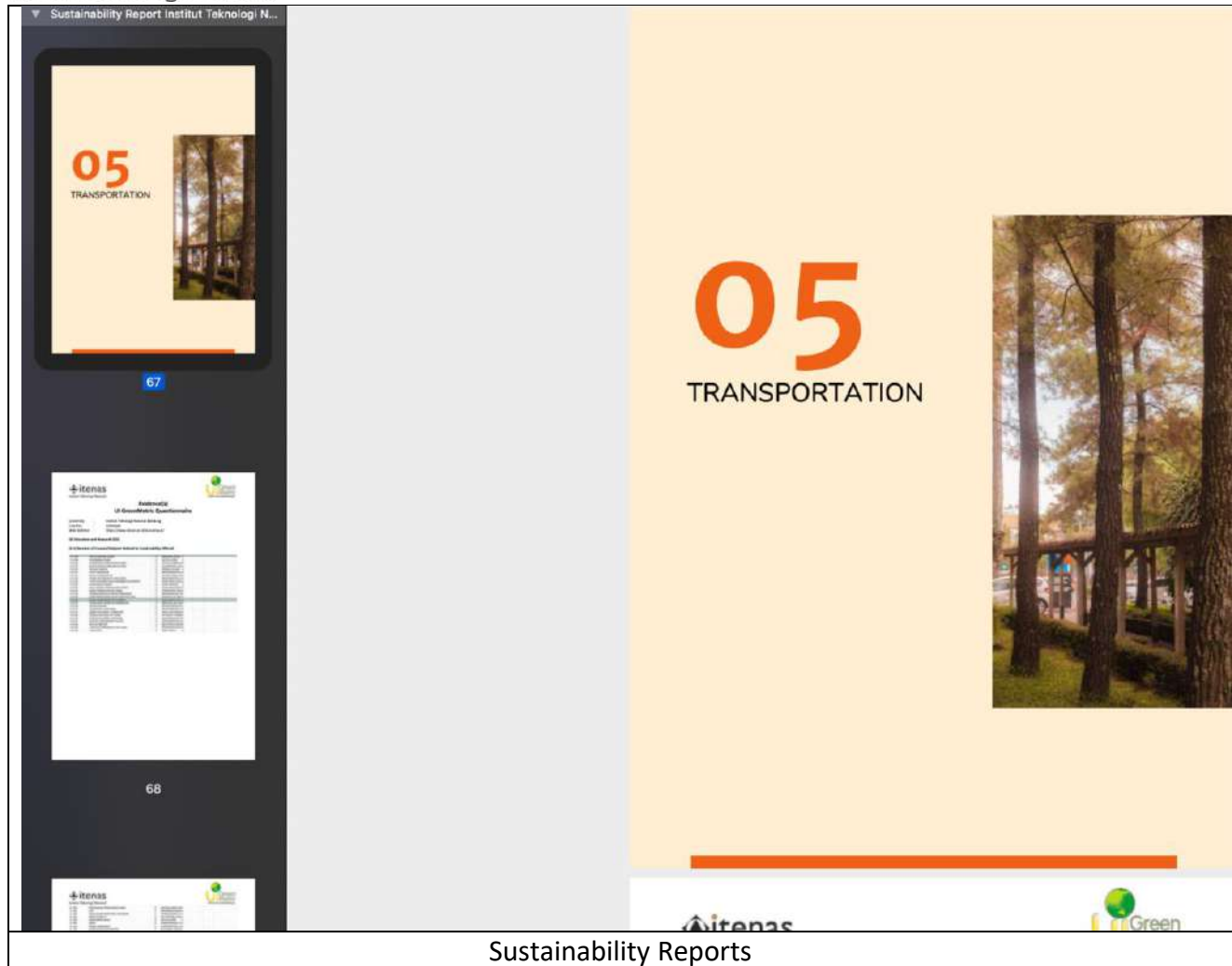
37



03 WASTE







Description:

Above are some of sustainability report of Itenas Bandung. Full report can be found here:
<https://www.itenas.ac.id/ecocampus/>

Template for Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

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

	
Jinggaswara	UABM
	
Lisenda	UBSU
Cultural activities on campus	

Description:

In average, Itenas has 20 cultural events every year from different student organisations, such as Jinggaswara, Minang Student Organisation, Sundanese Student Organisation, North Sumatera Student Organisation, and others.

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education and Research (ED)

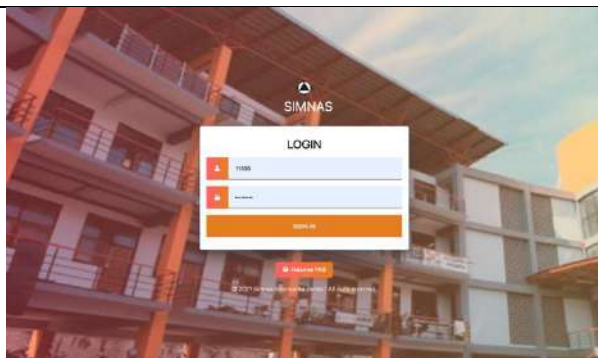
[6.14] Number of university program(s) to cope with Covid-19 pandemic



Vaccination



Information System for Vaccination



Information System for Campus Entrance due to COVID



Face shield distribution to hospitals



Disinfectant distribution to hospitals

Description:

Itenas has numerous university programs to cope with Covid pandemics, such as:

- Vaccination for students
- Vaccination for lecturers
- Vaccination for elementary school teachers
- Vaccination for general publics
- Body temperature check
- Online teaching: <https://elearning.itenas.ac.id/login/index.php>
- Information system to limit students/lecturers/staff in campus
- Handwashing facilities
- Class arrangement
- Distribution of mask & hand sanitisers to hospitals and other health-facilities
- Covid-related seminars
- Information System for Vaccination

Evidence(s)

UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education & Research

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

Description:

Below is some of community project by Itenas staff/lecturers/students during 2020.

No	Nama Ketua Tim	Judul Kegiatan
1	Sumarno, Ir., M.T.	Pelatihan Pemetaan Desa dan Pengelolaan Informasi Geospasial untuk Aparatur Desa 2019
2	Dr.techn. Indra Noer Hamdhan	Indonesian Advanced Course on Computational Geotechnics
3	Dr. Uung Ungkawa, M.T. dan Tim	Portal Akademik Sekolah Dasar Priangan
4	Ranna Kurnia, S.T., M.T.	Pelatihan Teknisi Laboratorium Mekanika Tanah dan Matera Perkerasan Jalan Bagi Para CPNS di Kantor Dinas Pekerjaan Umum Bina Marga Kabupaten Purwakarta
5	Dr. Eka Wardhani, S.T., M.T.	Penyusunan Dokumen Analisis Mengenai Dampak Lingkungan (AMDAL) Penataan Koridor Monumen Perjuangan Rakyat (MONPERA) Provinsi Jawa Barat
6	Dr. Eka Wardhani, S.T., M.T.	Penyusunan Dokumen Analisis Mengenai Dampak Lingkungan (AMDAL) Rencana Pembangunan Sudetan Saluran Induk Tarum Timur Kab. Subang, Prov. Jawa Barat
7	Dr. Eka Wardhani, S.T., M.T.	Penyusunan Dokumen Upaya Pengelolaan Lingkungan dan Upaya Pemantauan Lingkungan (UKL-UPL) Rehabilitasi Daerah Irigasi Cikeusik Kab. Cirebon dan Kuningan
8	Dr. Eka Wardhani, S.T., M.T.	Penyusunan Dokumen Analisis Mengenai Dampak Lingkungan (AMDAL) Kegiatan Rehabilitasi Situ Garukgak Patrasana Kabupaten Tangerang Provinsi Banten
9	Dr. Eka Wardhani, S.T., M.T.	Penyusunan Dokumen Evaluasi Lingkungan Hidup (DELH) kegiatan Pembangunan Drainase Utama Pengendalian Banjir Kota Palangkaraya

	Arsyad Ramadhan Darlis, S.T., M.T. dan Tim	Pelatihan Basic Mikrokontroler Atmega328 Bagi Siswa Siswi SMA Siliwangi AMS-Banjaran, Kabupaten Bandung
11	Edi Setiadi Putra, M.Ds. Dan Tim	Workshop Produksi Cinderamata Bebegig Sukamantri di Kabupaten Ciamis
12	Iyus Kusnaedi, M.Ds.	PartnerInc Mini Workshop "Wooden Craft Workshop" - Workshop Craftmanship Pengelolaan Kayu Limbah Menjadi Karya
13	Sofia Umaroh, S.Pd., M.T. dan Tim	Pemanfaatan Media Promosi Digital untuk Meningkatkan Kesadaran Konsumen pada Perusahaan Infinity Karya Bersama
14	Iyus Kusnaedi, M.Ds.	Kelas Inspirasi Indonesia "Kelas Inspirasi Purwakarta #1"
15	Mila Dirgawati, S.T., M.T., Ph.D.	Penyusunan Dokumen Informasi Kinerja Pengelolaan Lingkungan Hidup Daerah (DIKPLHD) Provinsi Jawa Barat
16	Dr. M. Rangga Sururi, S.T., M.T.	Penyusunan Dokumen Informasi Kinerja Pengelolaan Lingkungan Hidup Daerah (DIKPLHD) Provinsi Jawa Barat
17	Ir. Utami, M.T. dan Tim	Pengawasan Pengembangan Masjid di Ciharalang, Bojong Koneng, Kab. Bandung
18	Boyke Arief Taufik, Drs., M.Sn.	Konsultasi Perencanaan Interior Pengisian Gedung Pusat Informasi Geologi Belitung
19	Dr. Soni Darmawan, S.T., M.T. dan Tim	Kajian Metode, Proses Bisnis, SOP dan Spesifikasi Teknis Pembuatan Peta Dasar Skala Menengah (1:5.000) dan Kecil (1:1.000)
20	Dr. Soni Darmawan, S.T., M.T. dan Tim	Kajian Metode, Proses Bisnis, SOP dan Spesifikasi Teknis Pembuatan Peta Dasar Skala Menengah (1:25.000) dan Kecil (1:250.000) melalui Proses Generalisasi
21	Dr. Soni Darmawan, S.T., M.T. dan Tim	Kajian Teknologi dan Metodologi Pengumpulan Data (Aquisisi) untuk Percepatan Penyediaan Peta Dasar Skala 1:5.000 dan 1:1.000
22	Dr. Soni Darmawan, S.T., M.T. dan Tim	Kajian Pemodelan Kota 3 Dimensi (3D City Model)
23	Mila Dirgawati, S.T., M.T., Ph.D. dan Tim	Updating Data IPAL Komunal di Kecamatan Cimahi Utara Kota Cimahi
24	Dr.Eng. M. Candra Nugraha	Penyusunan Revisi Rencana Aksi Daerah (RAD) Tujuan Pembangunan Berkelanjutan/Sustainable Development Goals (TPB/SDGs)
25	Dr. Etih Hartati, Ir., M.T.	Diseminasi Produksi Bersih di Industri

26	Arian Ekajati Latief, S.T., M.T. dan Tim	Pembuatan dan Penyuluhan Alat Penyangk Kotoran pada Air (Filter) Sederhana di KP. Sindangsari, Kab. Bandung
27	Dr. Nurtati Soewarno, Ir., M.T. dan Tim	Sosialisasi dan Pemaparan Hasil Kerjasama PKM Prodi Arsitektur Itenas Bandung dan Prodi Arsitektur STTC
28	Ir. Mamiek Nur Utami, M.T. dan Tim	Percepatan Pembangunan Gedung Bermain Sekolah Binar Indonesia
29	Ramlan, S.Sn., M.Sn.	Penanaman Pohon Dusun Bukanagara, Desa Cupungara, Subang Selatan
30	Dr. Etih Hartati, Ir., M.T.	Program Pembangunan Industri
31	Dr. Dwi Prasetyanto, Ir., M.T. dan Tim	Identifikasi Kinerja Lalu Lintas Akses Masuk Kota Bandung Sisi Timur
32	Ibrahim Hermawan, Drs., M.Sn.	Perancangan Interior dan Elemen Estetik Masjid Agung Cimalaka, Kab. Sumedang
33	Amatulhay Pribadi, S.T., M.T.	Konsultan Design Rumah Sakit Salman
34	Iyus Kusnaedi, M.Ds.	Survey Pendokumentasian Arsitektur Bangunan dan Ruang dalam Interior untuk Kajian Standar Bangunan Perpustakaan PEMKOT Lubuk Linggau
35	Mustovia Azahro, S.T., M.T.	Fasilitasi Penyusunan Database Kawasan Permukiman Kumuh Perkotaan Kabupaten Brebes
36	Ganis Resmisari, M.Ds.	Perancangan Brand Identity "Padmae Regency"
37	Iyus Kusnaedi, M.Ds.	Survey Pendokumentasian Arsitektur Bangunan dan Ruang dalam Interior untuk Kajian Standar Bangunan Perpustakaan "Perpustakaan Soeman HS Provinsi Riau"
38	Katarina Rini Ratnayanti, S.T., M.T. dan Tim	Sipil Mengabdikan Bagi Masyarakat Sungai Cikapundung Kolot Cijagra
39	Dr.rer.nat. Dian Noor Handiani dan Tim	Identifikasi Bangunan dan Desain Awal Pembuatan Peta Lokasi Sekolah Alam Bandung
40	Tito Shantika, S.T., M.Eng. Dan Tim	Pembangunan PLTMH di Desa Cipeujeuh Kabupaten Bandung
41	Dr. Drs. Sulisty Setiawan, M.Pd. Dan Tim	Semiloka Literasi Kreatif Bermeda Waboli Bagi Guru dan Siswa SDN 151 Sukasenang Bandung
42	Yusril Irwan, Ir., M.T. dan Tim	Pembekalan Ilmu Dasar Pengerjaan Pengelasan kepada Pemuda Karang Taruna Desa Peundeuy dan Karang Agung, Kabupaten Garut, Jawa Barat
43	Dr. Sadar Yuni Raharjo, Ir., M.T.	FGD Penyusunan Rancangan Peraturan Presiden (Raperpres) tentang RTR KSN Subak-Bali Landscape

44	Ibro Saputra, S.T., M.T.	FGD Analisa Hasil dan Manfaat Pembangunan Infrastruktur
45	Yuono, S.T., M.T. dan Tim	Penyuluhan dan Pengenalan Bidang Ilmu Teknik Kimia kepada Siswa dan Guru SMA se-Kota Bandung
46	Dr. Sadar Yuni Raharjo, Ir., M.T.	FGD Pembahasan Delineasi Konsep Raperpres RTR KSN Subak-Bali Landscape
47	Tito Shantika, S.T., M.Eng. Dan Tim	Kerjasama Konsultasi dan Pengembangan Mesin Chipboard dan Pengereng Kertas di PT. Triguna Pratama Abadi
48	Dr. Yuki Achmad Yakin, S.T., M.T.	Pelatihan Teknisi Laboratorium Mekanika Tanah dan Material Perkerasan Jalan Bagi Para CPNS di Kantor Dinas Pekerjaan Umum Bina Marga Kabupaten Purwakarta
49	Marisa Premitasari, S.T., M.T.	Pengajaran Mata Pelajaran SD, SMP dan SMA
50	Hendang Setyo Rukmi, S.T., M.T. dan Tim	Pengenalan Manajemen Pemasaran bagi Siswa/siswi SMA Lappesa, Kec. Cililin, Kab. Bandung Barat
51	Hendang Setyo Rukmi, S.T., M.T. dan Tim	Pelatihan Kewirausahaan bagi Siswa/siswi SMA Lappesa, Kec. Cililin, Kab. Bandung Barat
52	Hendang Setyo Rukmi, S.T., M.T. dan Tim	Pengenalan Sistem Pengendalian Kualitas di Industri bagi Siswa/siswi SMA Lappesa, Kec. Cililin, Kab. Bandung Barat
53	Sony Herdiana, S.T., M.Reg.Dev.	Pembahasan Laporan Akhir oleh PT. Belaputra Interplan
54	Dr. Ir. Dewi Parlina, MSP.	Pengukuran Termal sebagai Acuan pada Rencana Perluasan Bangunan Masjid Lautze Bandung
55	Dr. Ir. Yati Muliati Sadli, M.T.	Perbaikan Saluran Drainase di RT. 012 (Jln. Kyai Luhur - Jl. Hasanudin) RW. 08 Kelurahan Lebak Gede Kecamatan Coblong Kota Bandung
56	Dr. Firmansyah Diyata, S.S., M.Pd. Dan Tim	Pelatihan Skills dan Pengajaran <i>Test of English as a Foreign Language</i> (TOEFL) kepada Guru Bahasa Inggris Sekolah Menengah Atas di Kota Bandung
57	Aprilana, Ir., M.T.	Pembuatan Peta Situasi Batas Kawasan Hutan di Semarang Timur Provinsi Jawa Tengah
58	Dian Duhita Permata, S.T., M.T. dan Tim	Cara Identifikasi Potensi, Permasalahan dan Prospek pada Kawasan Kampung Kota Cibunuh Berwarna Bandung
59	Marisa Premitasari, S.T., M.T.	Kelas Inspirasi Indonesia "Kelas Inspirasi Purwakarta" di SDN Pasawahan, Pasawahan Purwakarta
60	Wiwi Isnaini, M.Ds.	Perancangan Brosur Menabung Sampah di Bank Resik untuk Kalangan Komersial dan Kantor Pemerintah
61	Andrean Maulana, S.T., M.T.	Workshop Rencana Induk Transportasi Nasional

63	Asep Nana Hermana, Ir., M.T.	Aplikasi Zakat Fitrah di Masjid Al-Abror Arcamanik Kota Bandung
64	Wiwi Isnaini, M.Ds.	Pembentukan Studio Diskusi Desain dan Kreativitas bagi Masyarakat Desain di Bandung
65	Ardhiana Muhsin, S.T., M.T.	Perencanaan Mesjid Darul Ulama di Krian Sidoarjo, Jawa Timur
66	Desti Santi Pratiwi, S.T., M.T.	Engineering Service Project (ESP)
67	Faisal Gerardo, S.T., M.T.	Bimbingan Teknis Verifikasi dan Tata Carya Survey Kondisi Jalan
68	Faisal Gerardo, S.T., M.T.	Bimbingan Teknis Verifikasi dan Tata Carya Survey Kondisi Jalan
69	Faisal Gerardo, S.T., M.T.	Pendampingan Verifikasi Data dan Teknis DAK TA 2020 terhadap SKPD Dinas PU se-Provinsi Papua Barat
70	Faisal Gerardo, S.T., M.T.	Pendampingan Verifikasi Data dan Teknis DAK TA 2020 terhadap SKPD Dinas PU se-Provinsi Sulawesi Utara
71	Faisal Gerardo, S.T., M.T.	Pendampingan Verifikasi Data dan Teknis DAK TA 2020 terhadap SKPD Dinas PU se-Provinsi Sulawesi Barat dan Sulawesi Selatan
72	Faisal Gerardo, S.T., M.T.	Pendampingan Verifikasi Data dan Teknis DAK TA 2020 terhadap SKPD Dinas PU se-Provinsi Riau
73	Faisal Gerardo, S.T., M.T.	Pendampingan Verifikasi Data dan Teknis DAK TA 2020 terhadap SKPD Dinas PU se-Provinsi Nusa Tenggara Timur
74	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Timur Indonesia Gelombang VI
75	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Timur Indonesia Gelombang V

76	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Barat Indonesia Gelombang IV
77	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Barat Indonesia Gelombang III
78	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Tengah Indonesia Gelombang I
79	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Tengah Indonesia Gelombang II
80	Faisal Gerardo, S.T., M.T.	Workshop Bantuan Teknik Manajemen dan Evaluasi Jalan Daerah Tahun Anggaran 2018
81	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Barat Indonesia Gelombang VI
82	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Barat Indonesia Gelombang V
83	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Tengah Indonesia Gelombang IV
84	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Tengah Indonesia Gelombang III
85	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Timur Indonesia Gelombang II

86	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Timur Indonesia Gelombang I
87	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Timur Indonesia
88	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Tengah Indonesia
89	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Wilayah Barat Indonesia
90	Faisal Gerardo, S.T., M.T.	Manajemen Pengelolaan Database Jalan dan Jembatan Daerah menggunakan Aplikasi SiPDJD untuk Mendukung Kegiatan Verifikasi Data Teknis DAK terhadap 541 SKPD Dinas PU/Binamarga Seluruh Indonesia
91	Mila Dirgawati, S.T., M.T., Ph.D. dan Tim	FGD Validasi Data DIKPLHD Jawa Barat Tahun 2019
92	Mila Dirgawati, S.T., M.T., Ph.D.	Pengembangan Data dan Informasi Lingkungan Tahun Anggaran 2019 DLH Kabupaten Bandung
93	Dr. Yuki Achmad Yakin, S.T., M.T. dan Tim	Pelatihan Pekerjaan Timbunan Tanah untuk Bendungan (Batch I)
94	Dr. Yuki Achmad Yakin, S.T., M.T. dan Tim	Pelatihan Pekerjaan Timbunan Tanah untuk Bendungan (Batch II)
95	Mohamad Arif Waskito, M.Sn	Pelatihan Pembuatan Face Shield Darurat Berbahan PVC Bekas Pipa Air untuk Masyarakat Terdampak Pandemi Covid 19
96	Nico Halomoan, S.T., M.T.	Pelatihan Pengendalian Pencemaran Air
97	Dr. Ir. Dwi Prasetyanto, M.T.	Webinar Trend Bersepeda di Bandung Menuju Era New Normal: Antara Gaya Hidup, Kesehatan, dan Keselamatan Berlalu Lintas
98	Dr.Eng. M. Candra Nugraha	Konvensi dalam rangka pembakuan Rancangan Standar Kompetensi Kerja Nasional Indonesia (RSKKNI)

99	Dr. Ir. Dwi Prasetyanto, M.T. dan Tim	Analisis Penggunaan Angkutan Online Berdasarkan Moda Asal Pada Perjalanan Rutin dan Menuju Simpul Transportasi di Kota Bandung
100	Iyus Kusnaedi, M.Ds.	Kelas Inspirasi Indonesia: Kelas Inspirasi Kebumen #5 "Seluas Samudra Bentangkan Mimpi Tak Bertepi"
101	Iyus Kusnaedi, M.Ds.	E-learning Branding Concept untuk Siswa Paris de la Mode Tangerang
102	Dr. Soni Darmawan, S.T., M.T. dan Tim	Sosialisasi/Penyuluhan Survey Pemetaan Menjawab Tantangan Pembangunan dan Angkatan Kerja yang Dibutuhkan Pasca Pandemi Covid-19 di Lembaga Pelatihan Vet Budikarya Mandiri
103	Sri Suci Yuniar, S.T., M.T. dan Tim	"Pelatihan Penggunaan Learning Management System Schoology" bagi Guru-guru di SMP/SMA/SMK Jenderal Sudirman Bandung
104	Maugina Rizki Havier, M.Ds.	Sharing Knowledge Material untuk Desain Interior
105	Nana Subarna, Ir., M.T. dan Tim	Pelatihan Instrumentasi Industri, Keamanan dan Keselamatan Pengoperasian untuk Siswa/Siswi & Guru SLTA (Aplikasidan Pengendalian Motor Listrik, Jaringan Komputer dan Keamanannya,PLC dan Permasalahannya)
106	Anastasha Oktavia Sati Zein, M.Ds. dan Tim	Kelas Inspirasi Bandung #8
107	Dr. Ir. Dewi Kania Sari, M.T.	Rapat Teknis Forum Tanggung Jawab Sosial dan Lingkungan (FTJSL) Kota Bandung
108	Rika Hernawati, S.T., M.T. dan Tim	Sosialisasi/Penyuluhan Pengenalan Program Studi di Lingkungan FTSP untuk Siswa SMA dan Umum
109	Dr. Eka Wardhani, S.T., M.T. dan Tim	Penyusunan Dokumen Informasi Kinerja Pengelolaan Lingkungan Hidup Daerah (DIKPLH) Kabupaten Bandung Barat Tahun 2020
110	Dr. Eka Wardhani, S.T., M.T. dan Tim	Penyusunan Dokumen Analisis Mengenai Dampak Lingkungan (Amdal) Penataan Monumen Perjuangan Rakyat Provinsi Jawa Barat
111	Isro Saputra, S.T., M.T.	Focus Group Discussion (FGD) Penyusunan Master Plan, Development Plan, Pra Studi Kelayakan, dan Pra Desain Kawasan Perdesaan Prioritas Nasional (KPPN) Bone
112	Dr. Nurtati Soewarno, Ir., M.T. dan Tim	Eksplorasi Potensi dan Permasalahan Bangunan Cagar Budaya Eks Kolonial di Kota Cirebon
113	Erwin Yuniar Rahadian, S.T., M.T. dan Tim	Pelatihan Penyelenggaraan Proyek Infrastruktur PUPR dengan Metodologi Building Information Modeling (BIM)
114	Mamiek Nur Utami, Ir., M.T. dan Tim	Tata Letak Alat Permainan Anak-anak sebagai Alat Terapi di Sekolah Binar Indonesia

115	Dr. M. Rangga Sururi, S.T., M.T. dan Tim	Dokumen Informasi Kinerja Lingkungan Hidup Daerah (DIKPLHD) Provinsi Jawa Barat Tahun 2019
116	Fifi Herni Mustofa, S.T., M.T.	Penyusunan Standar Peralatan SMK
117	Dr. Dewi Parliana, Ir., M.SP.	Pengawasan Perbaikan Eksterior Sekolah Binar Indonesia
118	Aris Kurniawan, S.Sn., M.Sn.	Perancangan Ragam Hias Untuk Program Pagelaran Busana Muslim di Rusia Bagian II di PT. Dhana Desain Jl. Talaga Bodas No.31 Bandung
119	Lita Lidyawati, S.T., M.T. dan Tim	Pengendalian Jarak Jauh Sistem Pengairan Taman Pada Perumahan Pondok Hijau Indah Secara Jarak Jauh Menggunakan Internet of Things (IoT)
120	Dr. Soni Darmawan, S.T., M.T.	Binder (Bincang Inderaja) Seri #05 Lapan: Pemanfaatan Teknologi Geospasial dalam Pembangunan Satu Data Perkebunan Indonesia
121	Dr. Soni Darmawan, S.T., M.T. dan Tim	Sosialisasi/ Penyuluhan Peningkatan Kapasitas Survey Pemetaan dan Informasi Geospasial di Lembaga Pelatihan Vet Budikarya Mandiri
122	Utami, Ir., M.T.	Pembangunan Masjid bagi Masyarakat di Bojong Koneng, Kabupaten Bandung
123	Dr. Juarni Anita, S.T., M.Eng. Dan Tim	Penyuluhan Rumah Sehat Kepada Masyarakat Penerima Program Rutilahu Di Desa Sukawening, Kecamatan Ciwidey, Kabupaten Bandung
124	Muhammad Ichwan, Ir., M.T. dan Tim	Pelatihan Monitoring dan Maintenance Aplikasi Medical Promotion Form di PT. Frisian Flag Indonesia
125	Sofyan Triana, S.T., M.T.	Integrasi Tarif Angkutan Umum Massal Wilayah Jakarta Pusat berdasarkan Metode Dynamic Programming Back Recursion
126	Irfan Sabarilah Hasim, S.T., M.T. dan Tim	Penerapan Teknologi Tepat guna Kepada Masyarakat dalam Pembuatan Foto Udara dengan Penggunaan Drone di Kampung Cibunut Kota Bandung
127	Dr. Sulisty Setiawan, M.Pd. Dan Tim	Berkreasi dengan Botol Air Mineral Bekas Bersama Siswa SDN 151 Sukasenang Bandung
128	Niken Syafitri, S.T., M.T., Ph.D.	Pelatihan Membuat Robot Sederhana dan Terjangkau
129	Mustovia Azahro, S.T., M.T.	Penyusunan Dokumen Profil Kawasan Permukiman Kumuh Perkotaan Bulakamba Tanjung, Kabupaten Brebes
130	Dr. Ir. Etih Hartati, M.T.	Limbah B3 pada PT X untuk kepentingan penyidikan Polda Jawa Barat
131	Hazairin, Ir., M.T.	Lomba Metode Konstruksi Nasional (Smart Innovation Method for Construction)
132	Iwan Juwana, S.T., M.EM., Ph.D.	Dokumen Informasi Kinerja Pengelolaan Lingkungan Hidup Kota Cimahi

134	Kamaludin, Ir., M.T., M.Kom. Dan Tim	Analisis Perhitungan pada Perencanaan Pembangunan Laboratorium DO-160
135	Euneke Widyaningsih, S.T., M.T. dan Tim	Penyusunan Modul Pelatihan Bidang Jalan dan Jembatan
136	Ir. Maya Ramadianti Musadi, Ph.D. dan Tim	Pendampingan dalam Pembuatan Hand Sanitizer untuk Masyarakat di Sekitar Bandung
137	Dr.Eng. M. Candra Nugraha	Focus Group Discussion “Kajian Reklamasi Lahan Bekas Tambang Batubara Untuk Kebun Energi”
138	Nico Halomoan, S.T., M.T.	Pelatihan Pengendalian Pencemaran Air
139	Amatulhay Pribadi, S.T., M.T.	Konsultan Design Rumah Sakit Salman 2020
140	Hendro Prasetyo, M.T. dan Tim	Pembuatan Desain Cetakan Produk Pallet Benang untuk Mesin Injection Plastic di UD. Jaya Makmur Setia
141	Hendro Prasetyo, M.T. dan Tim	Penyusunan Rencana Proses Produksi Komponen Turbin Oil Cooler di PT. Daya Inovasi Mandiri
142	Yuono, S.T., M.T. dan Tim	Sosialisasi Peran Insinyur Teknik Kimia dalam Pengembangan Energi Terbarukan
143	Dr.rer.nat. Riny Yolanda dan Tim	Sosialisasi <i>Nanotechnology and its Application in Catalyst</i>
144	Jono Suhartono, Ph.D. dan Tim	Sosialisasi Peran Teknik Kimia dalam Pengolahan Air dan Limbah di Industri
145	Ronny Kurniawan, M.T. dan Tim	Sosialisasi Peran Teknik Kimia dalam Biomassa untuk <i>Renewable Energy</i>
146	Lisye Fitria, M.T. dan Tim	Aplikasi Sistem Informasi Pendukung Keputusan Pemilihan <i>Supplier</i>
147	Ir. Maya Ramadianti Musadi, Ph.D. dan Tim	Sosialisasi Peran Teknik Kimia dalam Penanggulangan Pemanasan Global
148	Salafudin, M.Sc. Dan Tim	Sosialisasi Peran Sarjana Teknik Kimia dalam Industri Proses Rumput Laut
149	Gita Permata, M.T. dan Tim	Rancangan Kursi Penumpang Kelas K-1 Eksekutif Kereta Api Argo Parahyangan
150	Dr.Eng. M. Candra Nugraha dan Tim	Penyusunan Dokumen Studi Kelayakan / Feasibility Study (FS) Fasilitas Pengolah Sampah Untuk Pembuatan Bahan Bakar Berbasis Sampah / Refuse Derived Fuel (RDF) Di Kabupaten Probolinggo
151	Melati Kurniawati, M.T. dan Tim	Implementasi Model Pengukuran Kinerja dan Sistem Insentif di CV. Sense of Life Bandung

152	Rispianda, S.T., M.T., M.Phil. Dan Tim	Pembuatan Alat Pemotong liuk Sistem Penumatik Berbasis <i>Hardwire Relay</i> Guna Mengurangi Jumlah Produk Cacat dan Meningkatkan Efisiensi Produksi
153	Dr. Jamaludin, S.Sn., M.Sn.	Talkshow Budaya Sunda, Sarjana Boboko di Pojok Napak Jagat Pasundan Youtube
154	Edwin Widia, S.Sn., M.Ds.	Desain Rumah Tinggal 2 Lantai Tipe 90 di Geger Kalong Bandung
155	Fahmi Arif, S.T., M.T., Ph.D.	Tenaga Ahli Konsultan (<i>Solution Architect</i>) <i>Sorting Device C-Light</i>
156	Fransiska Yustiana, S.T., M.T.	Narasumber Webinar Kewirausahaan
157	Dr. Ir. Yati Muliati Sadli, M.T.	Seminar Online Pusat Riset Kelautan
158	Dr.Eng. M. Candra Nugraha	Pengelolaan Lingkungan Pertambangan untuk Paska Tambang Berkelanjutan
159	Dewi Rosmala, S.Si., M.IT. Dan Tim	Zakat Kuy
160	Saryanto, M.T. dan Tim	Pengembangan Dan Inovasi Desain Kerajinan Bambu Untuk Elemen Interior, Komponen Interior dan Perwadahan Meja (Studi: Pengembangan Armatur Lampu untuk Interior)
161	Arief Irfan Syah Tjaja, M.M. dan Tim	Pembuatan Desain Rancangan Alat Bantu Rotary Draw untuk Proses Bending Material Astm A179 Pipe di CV. Sense of Life Bandung
162	Drs. Taufan Hidjaz, M.Sn. Dan Tim	Pengembangan dan Inovasi Desain untuk Kerajinan Bambu pada Elemen Desain Interior di Desa Mandala Giri Singaparna Tasikmalaya – Kelompok Perwadahan Meja
163	Andika Dwicahyo Aribowo, S.Ds., M.Ds.	Interpretative Plan Pusat Informasi BPCB Sumatra Barat
164	Dr.Eng. M. Candra Nugraha	WASH Cluster Virtual Meeting on “Waste Management”
165	Liman Hartawan, S.T., M.T. dan Tim	Penyusunan FS DED PLTS Rooftop Bangunan Non Komersial Wilayah Sumatera
166	Maugina Rizki Havier, M.Ds. Dan Tim	Seminar Online Program Studi Desain Interior Itenas dalam Bentuk Webinar
167	Sumarno, Ir., M.T. dan Tim	Workshop Percepatan Akusisi Data Toponim
168	Milda Gustiana, Ir., M.Eng. Dan Tim	Perancangan dan Simulasi Sitem Pemantauan Pembangkit Listrik Hibrida Tenaga Surya

170	Priyanto Saelan, Ir., M.T.	Pelatihan Bimbingan Teknik Quality Control Pekerjaan Sipil
171	Tia Adelia Suryani, S.T., M.P.W.K. dan Tim	Profil Kelurahan Randusari dan Peran Masyarakat dalam Mewujudkan Kampung Pelangi sebagai Kawasan Wisata Kota Semarang
172	Sri Retnoningsih, S.Sn., M.Ds.	Pelatihan Pengenalan Bahasa dan Budaya Tiongkok, Aksara China pada Kelas Bahasa Mandarin Klub Nihao Sahabat Museum Konferensi Asia Afrika

Evidence(s) UI GreenMetric Questionnaire

University : Institut Teknologi Nasional Bandung
Country : Indonesia
Web Address : <https://www.itenas.ac.id/ecocampus/>

[6] Education & Research

[16] Number of sustainability-related startups

No.	Information
1	Startup name: Safe Water Garden Itenas Startup area in UI Greenmetric questionnaire (SI, EC, WS, WR, TR, ED): WS, WR URL: https://drive.google.com/folderview?id=1RAhoNue5fyGdQIa-pLD9XwooaS3BYJw Description: Some students and lecturers from the Environmental Engineering of Itenas joined the training on how to build Safe Water Garden, and now they are fully certified to apply the technology in areas in West Java Photos:  <i>The training</i>



Building SWG in Bandung areas



2022

ITENAS

<https://www.itenas.ac.id/ecocampus/>