

2024



# STOU SUSTAINABILITY ANNUAL REPORT

46<sup>th</sup>  
STOU  
Anniversary





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**LESS**



# Message from STOU President



Asst. Prof. Dr. Phanompatt Smitananda  
Member of the University Council  
Acting President of  
Sukhothai Thammathirat Open University

At Sukhothai Thammathirat Open University, “sustainability” is not merely a trend but a cornerstone of our mission. As we strive to contribute to Thailand’s national goals of “Security, Prosperity, and Sustainability”, our university is committed to integrating the Sustainable Development Goals (SDGs) into our core strategies.

Our focus extends beyond academics to encompass the broader well-being of our communities, society, and nation. We are dedicated to promoting sustainability awareness among our personnel and students, encouraging and implementing environmentally friendly practices, operating our campus sustainably, and integrating sustainability principles into our teaching and daily operations.

While we navigate challenges such as the pandemic, climate change, and social, economic, environmental, and structural disparities, our vision is to achieve sustainable internationalisation and create lasting value. Participating in the UI GreenMetric World University Ranking demonstrates our commitment to environmental stewardship and setting a standard for sustainable higher education in Thailand.

Let us work together to reduce our environmental impact, promote sustainable practices, and inspire future generations to become responsible stewards of our planet.

# Introduction

## STOU

IS COMMITTED TO  
PROVIDING EQUITY  
AND QUALITY  
LIFELONG LEARNING  
FOR ALL TO  
RESPOND TO

## SUSTAINABILITY

IN THE DIGITAL AGE





# University Strategy for Sustainability



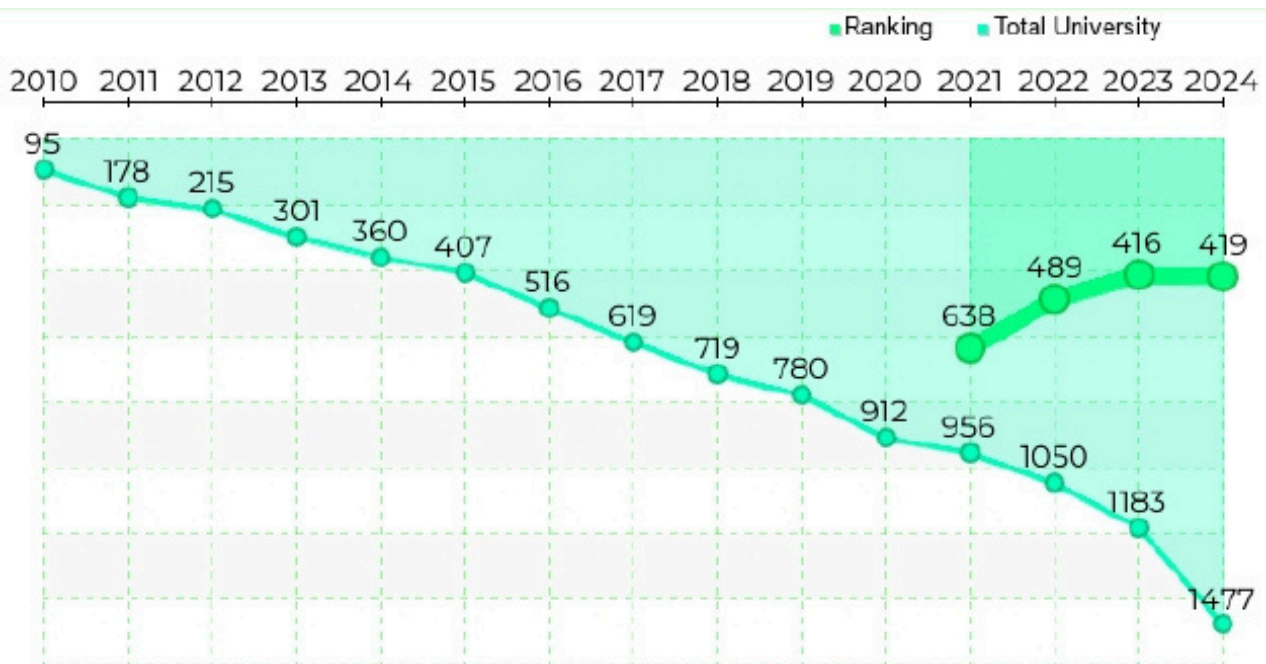
## Mission 5

Develop the university to achieve security, prosperity, and sustainability under good governance principles

## Strategy 12

- Physical Infrastructure Development for Sustainable University
- STOU Green & Clean
- Smart Campus
- Infrastructure Development

# World Rankings in 2024





# World Rankings in 2024

## Campus Sustainability Scores

Overall Performance

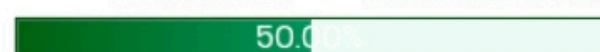
70.10 %

Total Score

7010 / 10000



**SI** Setting & Infrastructure  
Current: **750** Maximum: 1500



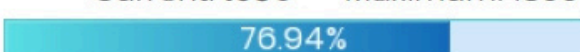
**WR** Water  
Current: **800** Maximum: 1000



**EC** Energy & Climate Change  
Current: **1300** Maximum: 2100



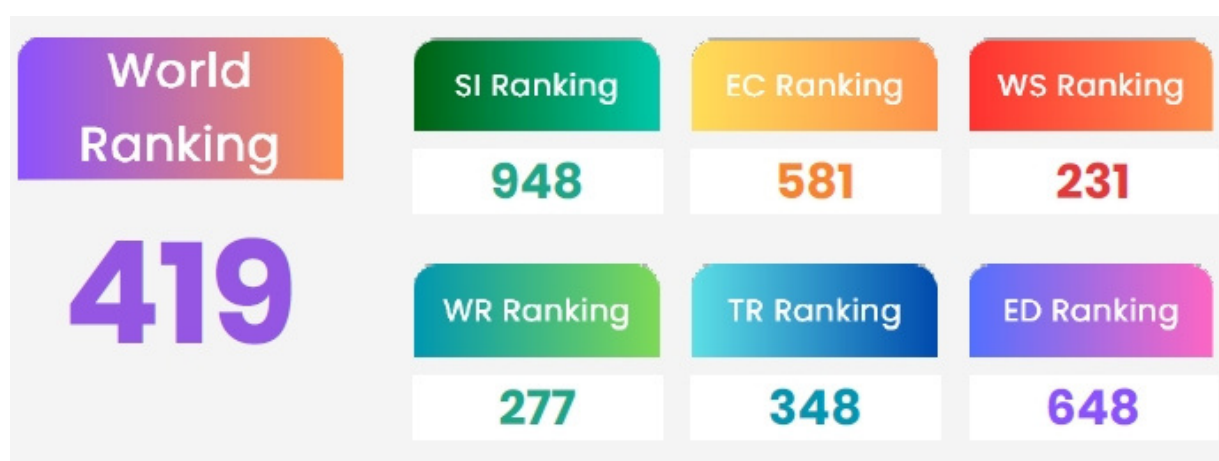
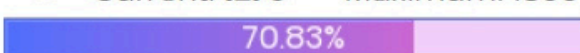
**TR** Transportation  
Current: **1385** Maximum: 1800



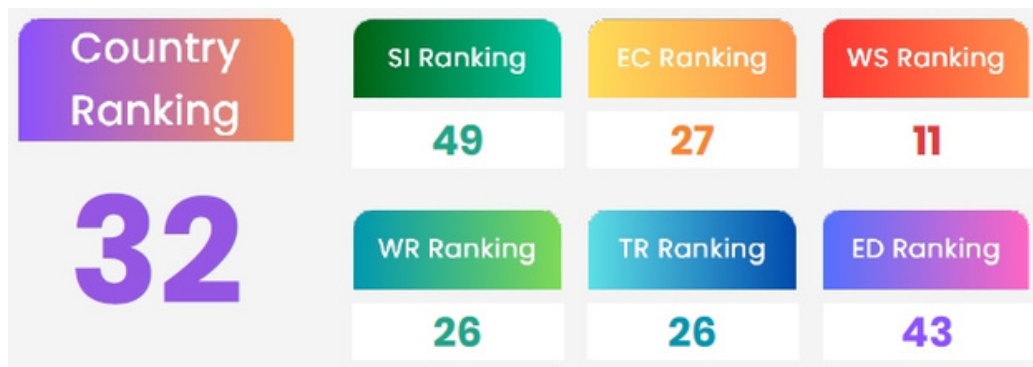
**WS** Waste  
Current: **1500** Maximum: 1800



**ED** Education & Research  
Current: **1275** Maximum: 1800



# Thailand Rankings in 2024



Top 5

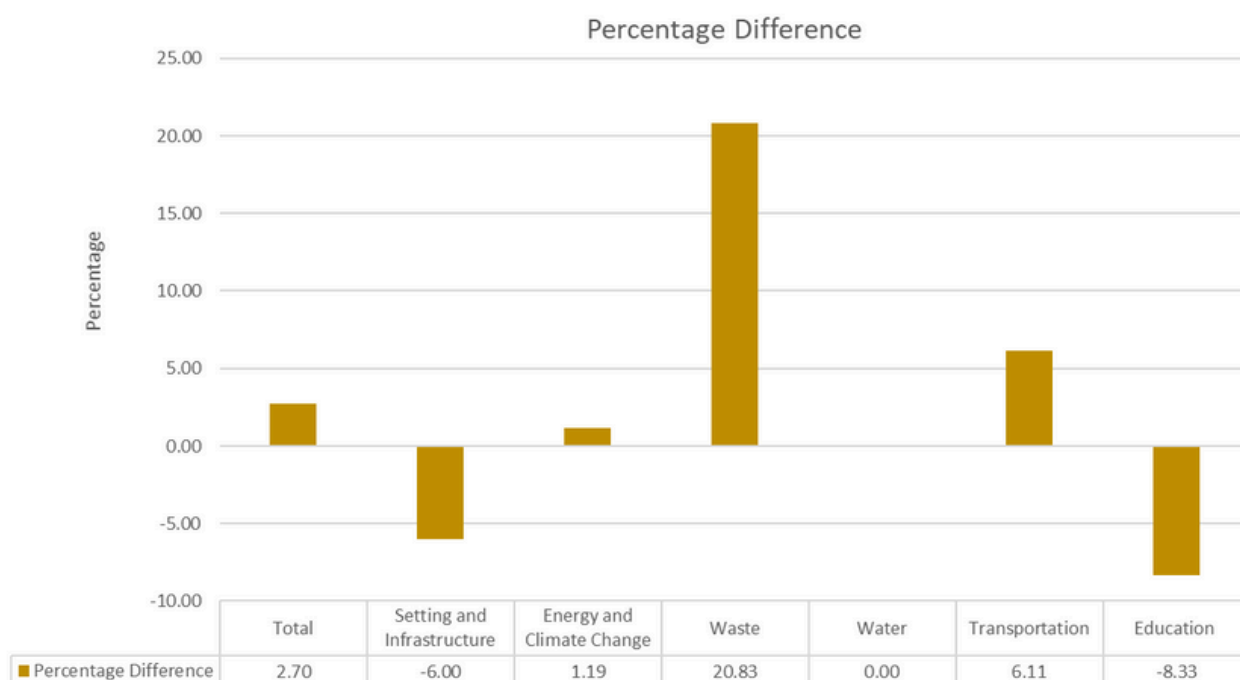
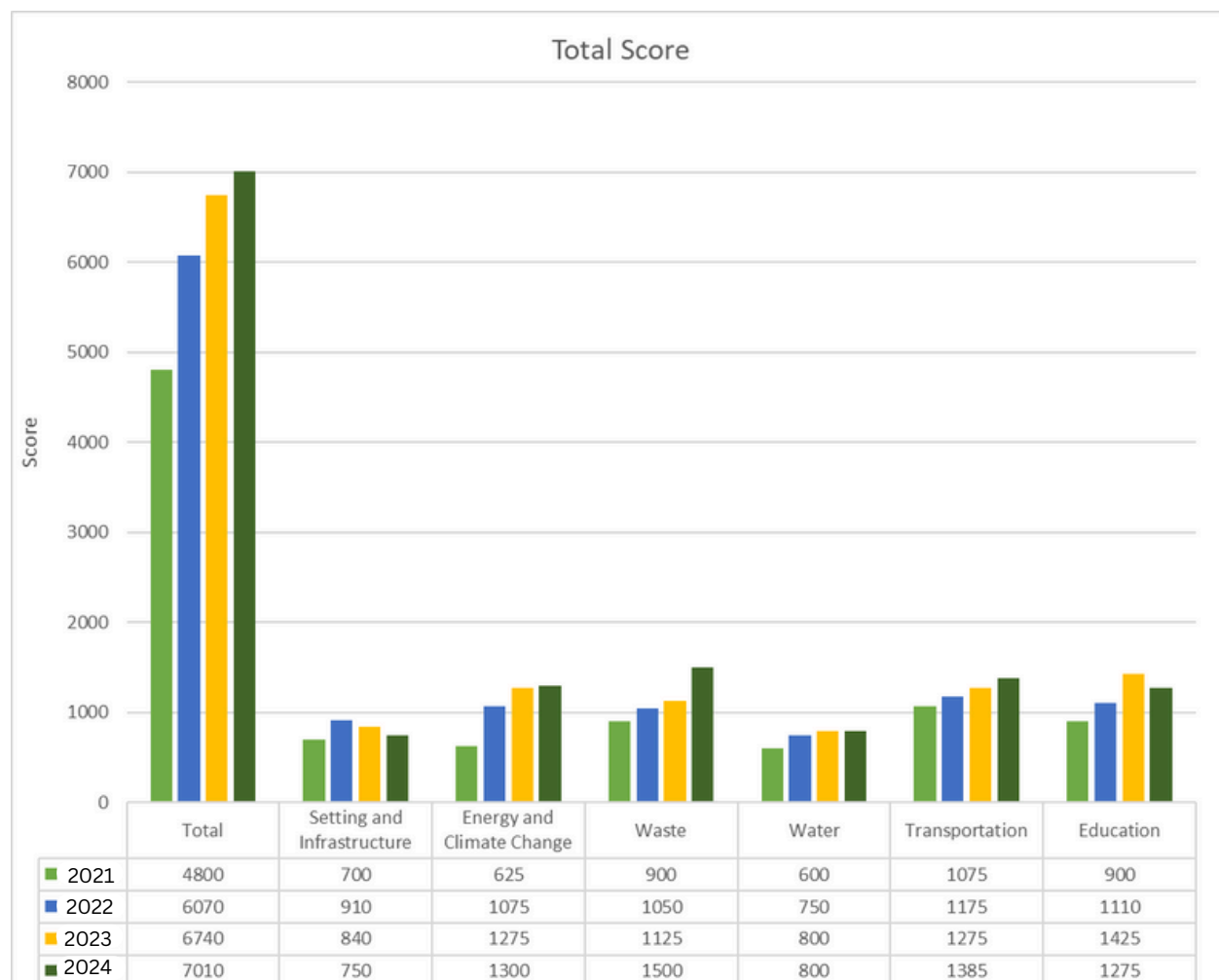
Country Rank	University	Total Score	SI Score	EC Score	WS Score	WR Score	TR Score	ED Score
1	Kasetsart University 📍 Thailand, Asia	8825	1300	1675	1575	900	1750	1625
2	Mahidol University 📍 Thailand, Asia	8775	1200	1525	1650	900	1700	1800
3	King Mongkut's University of Technology Thonburi 📍 Thailand, Asia	8750	1325	1625	1350	900	1750	1800
4	Suranaree University of Technology 📍 Thailand, Asia	8685	1275	1725	1800	900	1375	1610
5	Siam University 📍 Thailand, Asia	8650	1175	1550	1425	950	1750	1800

31-35

Country Rank	University	Total Score	SI Score	EC Score	WS Score	WR Score	TR Score	ED Score
31	Bansomdejchaopraya Rajabhat University 📍 Thailand, Asia	7065	715	1500	1125	450	1525	1750
32	Sukhothai Thammarath Open University 📍 Thailand, Asia	7010	750	1300	1500	800	1385	1275
33	Loei Rajabhat University 📍 Thailand, Asia	6810	1200	1000	1425	600	1185	1400
34	Nakhon Si Thammarat Rajabhat University 📍 Thailand, Asia	6750	1225	1050	900	650	1475	1450
35	Phranakhon Si Ayutthaya Rajabhat University 📍 Thailand, Asia	6560	900	1160	1200	350	1500	1450



# Results Comparison Year 2021 - 2024



# Setting and Infrastructure



Type of higher education institution  
**Comprehensive**

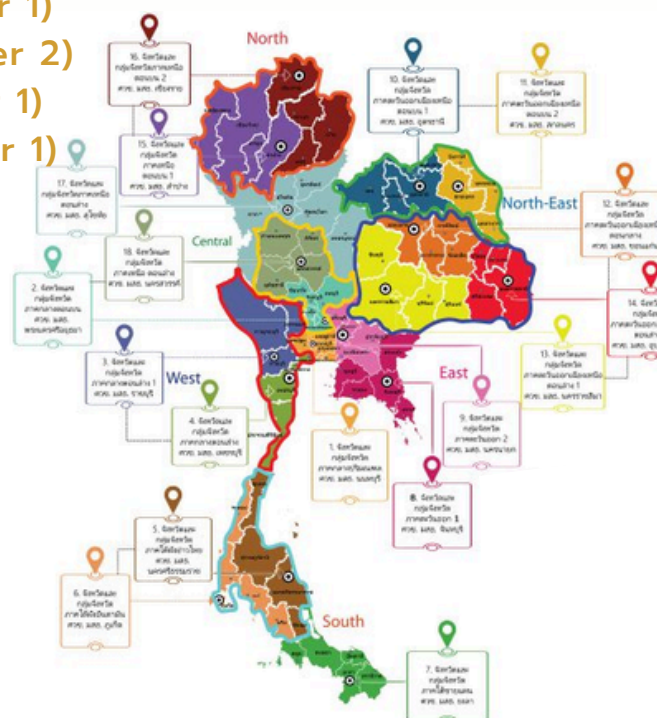
Climate  
**Tropical Wet**

Number of Campus  
**13**

Sukhothai Thammathirat Open University (Headquarters in Nonthaburi)

## Regional Academic Resources and Community Engagement Centers

- Nonthaburi (Vicinity Central Provincial Cluster)
- Kanchaburi (Lower Central Provincial Cluster 1)
- Phetchaburi (Lower Central Provincial Cluster 2)
- Lampang (Upper Northern Provincial Cluster 1)
- Sukhothai (Lower Northern Provincial Cluster 1)
- Nakhon Sawan (Lower Northern Provincial Cluster 2)
- Nakhon Si Thammarat (Southern Gulf of Thailand Provincial Cluster)
- Yala (Southern Provincial Cluster)
- Chanthaburi (Eastern Provincial Cluster 1)
- Nakhon Nayok (Eastern Provincial Cluster 2)
- Udon Thani (Upper North-Eastern Provincial Cluster 1)
- Ubon Ratchathani (Lower North-Eastern Provincial Cluster 2)

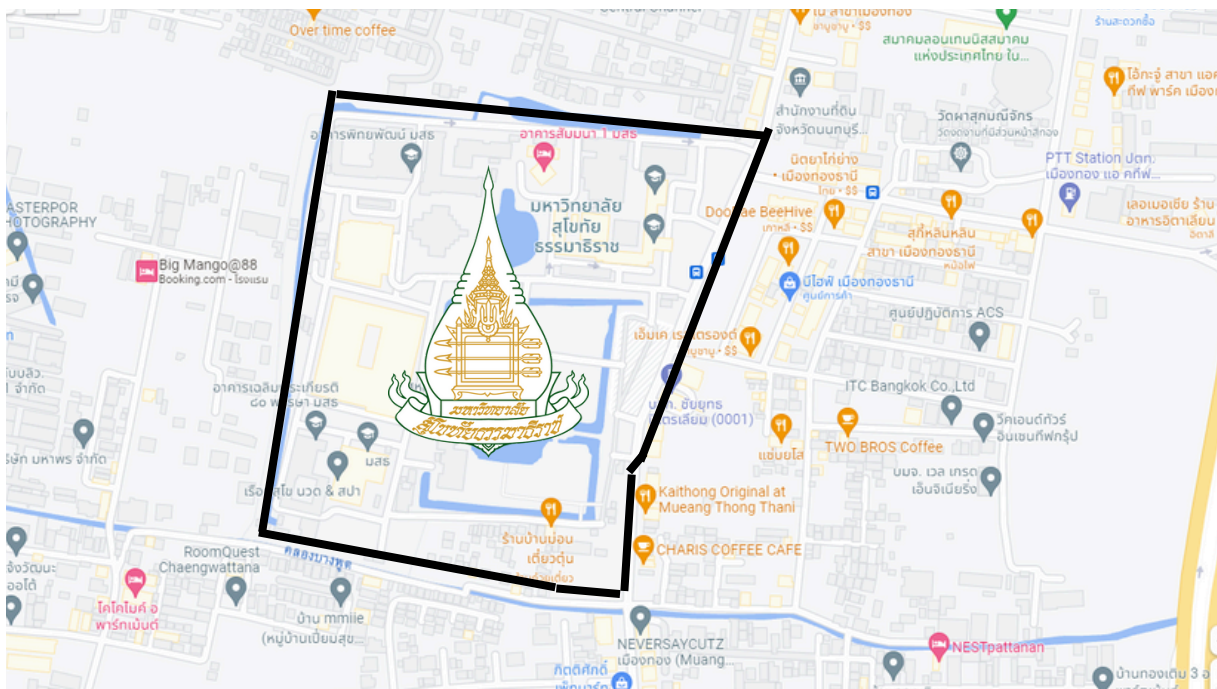




# Setting and Infrastructure

## Campus Setting Urban

### Headquarters in Nonthaburi



Total Campus Area  
**424,589 M2**

Headquarters in Nonthaburi and Regional Academic Resources  
and Community Engagement Centers

Total campus ground floor area of buildings  
**64,720 M2**

Total campus buildings area  
**220,787 M2**

The ratio of open space to total area  
**84.76%**

# Setting and Infrastructure

Total area on campus covered in forest vegetation  
**0%**

Total area on campus covered in planted vegetation  
**33.54%**



Total area on campus for water absorption  
besides forest and planted vegetation  
**38.60%**





# Setting and Infrastructure

Total number of regular students  
**76,626**

Total number of online students  
**76,626**

Total number of academic and administrative staff  
**1,752**

The total open space area divided by  
total campus population  
**6.20 m<sup>2</sup> /person**





# Setting and Infrastructure

Total university's budget (in US Dollars)  
**66,399,368**

University's budget for sustainability effort (in US Dollars)  
**347,024.90**

Percentage of University's budget for sustainability effort  
**1%**

Percentage of operation and maintenance activities of building  
**100%**



# Setting and Infrastructure

Campus facilities for disable and maternity care  
Facilities are partially available and operated



# Setting and Infrastructure

Security and safety facilities  
Security infrastructures are available with  
security responding time to accidents,  
crime, fire, and natural disasters  
is less than 10 minutes.





# Setting and Infrastructure

Health infrastructure facilities for students and academic and administrative staff wellbeing

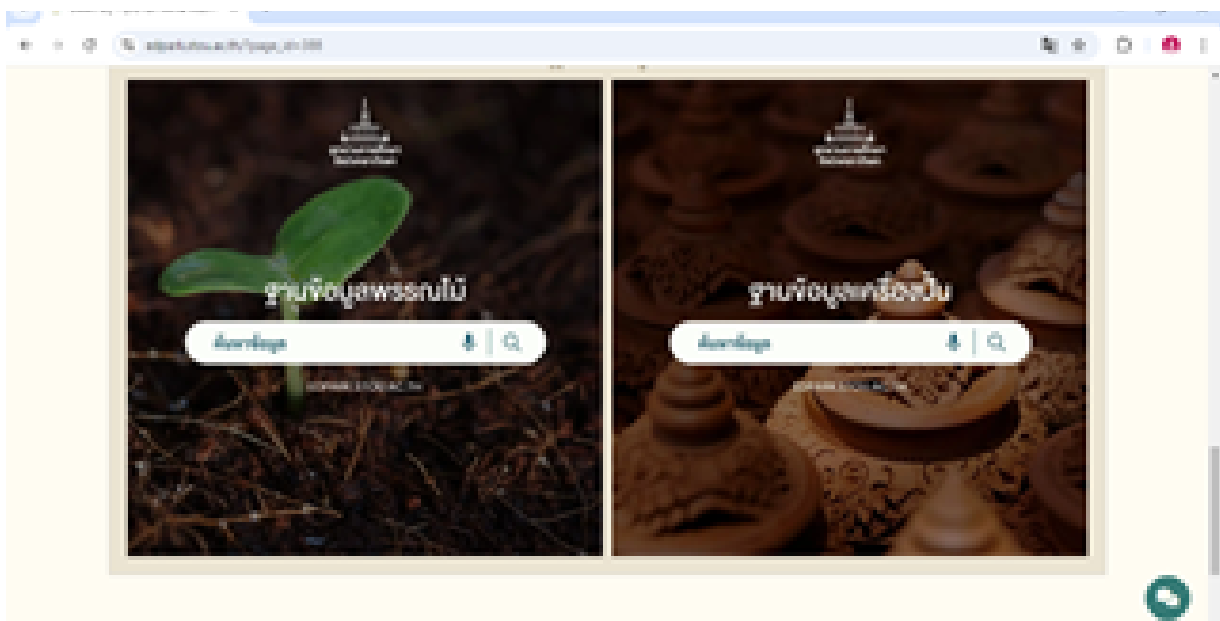
Health infrastructure (first aid, emergency room, clinic, hospital and certified personnel) system and accessible for public.



# Setting and Infrastructure

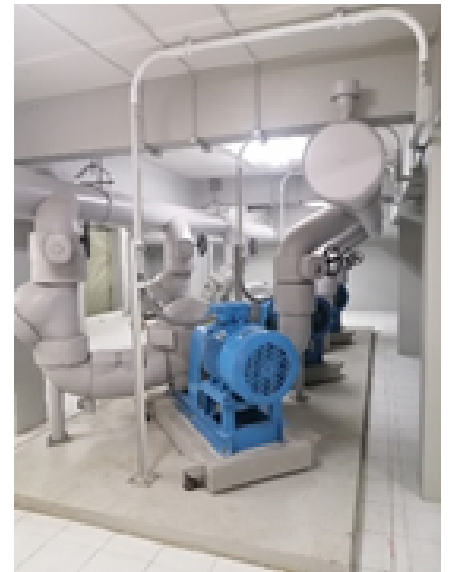
Conservation: Plant, animal and wildlife, genetic resources for food and agriculture secured in either medium or long term

Conservation program >75% implemented



# Energy and Climate Change

Energy efficient appliances usage  
> 75% (100%)



Number of renewable energy sources on campus  
1 source (Solar Power)  
Capacity produced 1,000 kWh





# Energy and Climate Change

Electricity usage per year  
**10,757,365 kWh**

Total electricity usage divided by  
total campus' population  
**< 279 kWh**

The ratio of renewable energy production divided by  
total energy usage per year  
**< 0.5%**

Elements of green building implementation as reflected in all  
construction and renovation policies  
**> 3 elements**



**Natural Ventilation  
for Air Circulation**



**Natural Lighting  
for Daily Source**



**Natural Features to  
Provide Natural Shade  
for the Buildings**



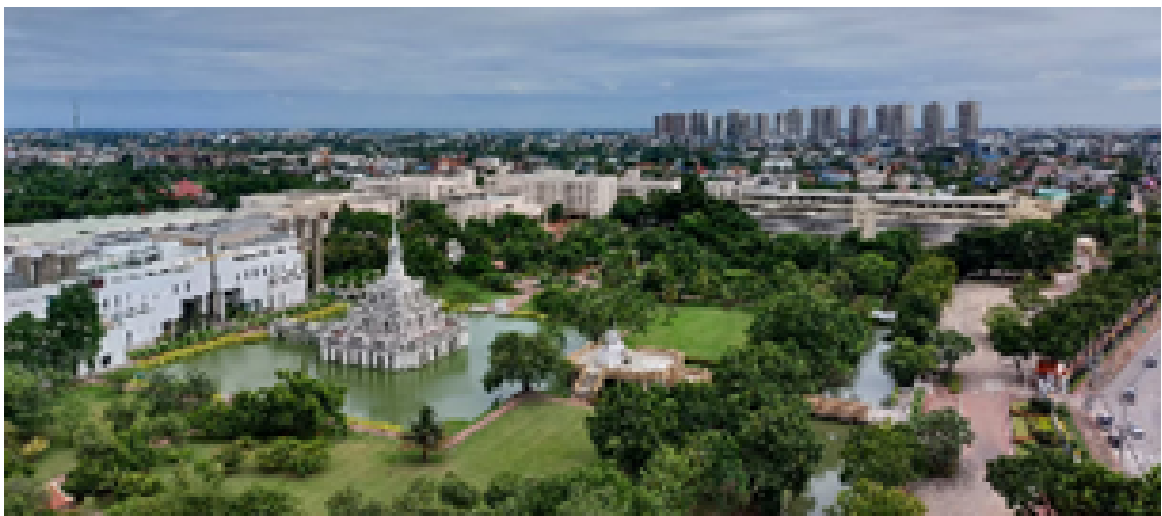
**Less Glass Windows to  
Reduce Solar Radiation**



**Green Building awarded as  
"Building Energy Code"**

# Energy and Climate Change

Greenhouse gas emission reduction program  
Program(s) aimed to reduce three scopes  
emissions (Scope 1, 2 and 3)



Total carbon footprint (CO<sub>2</sub> emission)  
**11,857 metric tons**



# Energy and Climate Change

Total carbon footprint divided by  
total campus' population  
**0.15 metric tons per person**

Number of Innovative Programs  
in energy and climate change  
**5 programs**





**Provide training, educational materials, conferences and activities which are implemented by communities at international level**



# Waste

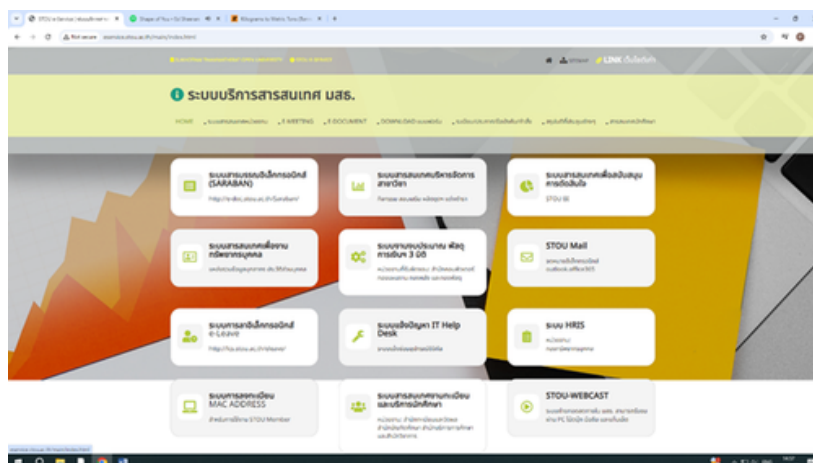
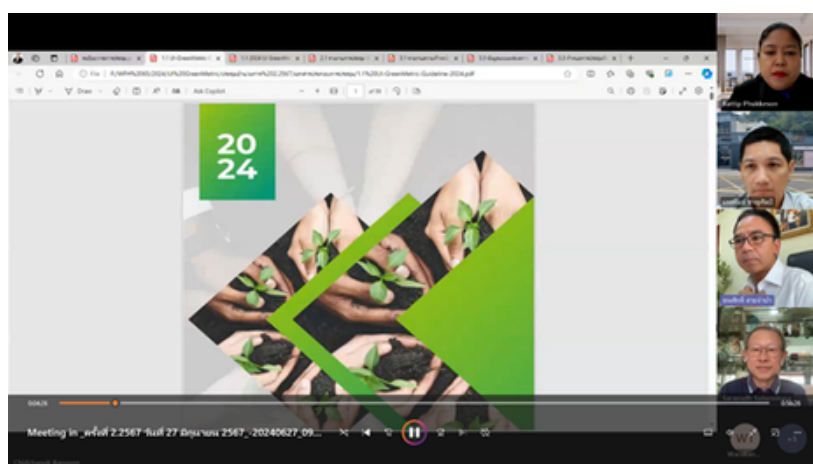
3R program for university's waste  
3R Program > 75% implemented





# Waste

Program to reduce the use of paper and plastic on campus  
**More than 10 programs**





# Waste

Total Volume Organic Waste produced  
**322 tons**

Total Volume Organic Waste treated  
**322 tons**

Organic Waste treatment  
**Extensive ( > 65-85% treated)**



# Waste

Total Volume Inorganic Waste produced  
**160 tons**

Total Volume Inorganic Waste treated  
**160 tons**

Inorganic Waste treatment  
**Extensive ( > 65-85% treated)**





# Waste

Total Volume Toxic Waste produced  
**4 tons**

Total Volume Toxic Waste treated  
**4 tons**

Toxic Waste treatment  
**Extensive ( > 65-85% treated)**



Sewage disposal  
**Treat with tertiary treatment**





**น้ำฝน**

**น้ำประปา น้ำเสีย**

**เส้นทางการจัดการน้ำ**  
มหาวิทยาลัยสุโขทัยธรรมมาธิราช

รวมรวมหากหลังคาของอาคารต่างๆ ไหลลงสู่ท่อ ผ่านตัวกรอง

เข้าสู่ถังเก็บน้ำ

รวมรวมน้ำในสระน้ำ ลำคลอง

เตาพอกาศ

สุขาใช้แทนน้ำประปา

ทำความสะอาดพื้น

ล้างชักโครก

รดน้ำต้นไม้

Aquaponics

เลี้ยงปลา

รวบรวมน้ำเสียจากอาคารต่างๆ เข้าสู่ระบบบำบัดน้ำเสีย

ปล่อยออกสู่สาธารณะ

ตรวจวัดคุณภาพน้ำ ให้อยู่ในเกณฑ์มาตรฐาน

โดก ของอาคารสถานที่

# Water

Water efficient appliances usage  
> 80% of water efficient appliances installed



Consumption of treated water  
> 75% treated water consumed



# Water

**Water pollution control in campus area**  
**Policy and programs for water pollution control**  
**are fully implimented and monitored regularly**



ประกาศมหาวิทยาลัยสุโขทัยธรรมาธิราช

เรื่อง นโยบายการพัฒนามหาวิทยาลัยสีเขียว ระยะ ๕ ปี (พ.ศ. ๒๕๖๖ - ๒๕๗๐)

ตามที่ มหาวิทยาลัยสุโขทัยธรรมาธิราชมีเป้าหมายการพัฒนามหาวิทยาลัยให้มีสภาพแวดล้อมที่เอื้อต่อการทำงาน การเรียนรู้และเป็นมหาวิทยาลัยสีเขียว ซึ่งสอดคล้องกับเป้าประสงค์ของประเด็นยุทธศาสตร์ที่ ๑๒ พัฒนาโครงสร้างพื้นฐานทางด้านกายภาพที่เอื้อต่อการทำงานและการเรียนรู้เพื่อเป็นมหาวิทยาลัยยั่งยืน ที่กำหนดไว้ในแผนพัฒนามหาวิทยาลัยสุโขทัยธรรมาธิราช ระยะ ๒๐ ปี (พ.ศ. ๒๕๖๑-๒๕๘๐) เพื่อให้บรรลุเป้าหมายในการพัฒนาดังกล่าวและขับเคลื่อนมหาวิทยาลัยสู่การเป็นมหาวิทยาลัยสีเขียว อาศัยอำนาจตามความในมาตรา ๒๐ แห่งพระราชบัญญัติมหาวิทยาลัยสุโขทัยธรรมาธิราช พ.ศ. ๒๕๒๑ และข้อ ๑๑ แห่งระเบียบมหาวิทยาลัยสุโขทัยธรรมาธิราช ว่าด้วยการพัฒนามหาวิทยาลัยสีเขียว พ.ศ. ๒๕๖๔ ประกอบกับมติคณะกรรมการอำนวยการพัฒนามหาวิทยาลัยสีเขียว มหาวิทยาลัยสุโขทัยธรรมาธิราช ในการประชุมครั้งที่ ๒/๒๕๖๖ เมื่อวันที่ ๒๗ มิถุนายน ๒๕๖๖ จึงออกประกาศไว้ ดังต่อไปนี้

#### ๔.๔ ด้านน้ำ

๔.๔.๑ เปลี่ยนเป็นอุปกรณ์ประหยัดน้ำ บำรุงรักษาเป็นประจำและเปลี่ยนวัสดุอุปกรณ์ตามอายุการใช้งาน

๔.๔.๒ สอดแทรกความรู้และส่งเสริมกิจกรรมที่สร้างความตระหนักให้กับบุคลากร นักศึกษา และบุคคลภายนอกในการใช้ทรัพยากรน้ำอย่างประหยัดและไม่ทิ้งขยะหรือสารเคมีลงในน้ำ



# Transportation

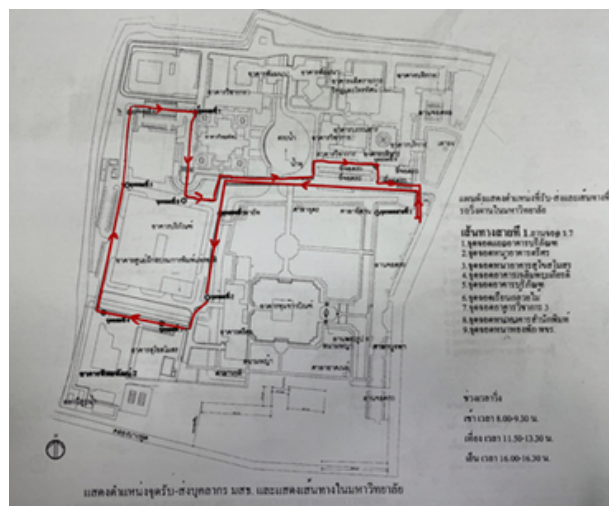
Number of cars actively used  
and managed by university  
**56**

Number of cars entering the university daily  
**1,200**

Number of motorcycles entering the university daily  
**700**

The total number of vehicles  
divided by total campus' population  
**< 0.045 (0.025)**

Shuttle services  
Provided by university,  
regular and zero emission vehicle



# Transportation

Number of shuttles operated in the university  
3

Average number of passengers of each shuttle  
8

Total trips of each shuttle services each day  
20

Zero Emission Vehicles (ZEV) policy on campus  
Zero Emission Vehicles are available,  
and provided by university for free



# Transportation

Number of shuttles operated in the university  
3

Average number of passengers of each shuttle  
8

Total trips of each shuttle services each day  
20

Zero Emission Vehicles (ZEV) policy on campus  
Zero Emission Vehicles are available,  
and provided by university for free





# Transportation

Average number of Zero Emission Vehicles (ZEV) on campus per day  
80

The total number of Zero Emission Vehicles (ZEV) divided by total campus population  
< 0.002

Total ground parking area  
15,965 M2

Ratio of ground parking area to total campus area  
3.76%



# Transportation

Program to limit or decrease the parking area  
on campus for the last 3 years  
**Less than 10% decrease in parking area**



Number of initiatives to decrease private vehicles  
on campus  
**> 3 initiatives**





# Transportation

**Pedestrian path on campus**  
**Available, designed for safety, convenience, and in some parts provided with disabled- friendly features**



**Approximate daily travel distance of a vehicle  
inside your campus only**  
**20 km**



# Education and Research

Number of courses related to sustainability offered  
**187**

Total number of courses offered  
**1,412**

The ratio of sustainability courses  
to total courses/subjects  
**13.24%**

Total research funds dedicated to sustainability research  
(Average annually for the past 3 years)  
**51,993.33 USD**

Total research funds  
(Average annually for the past 3 years)  
**159,768.37 USD**

The ratio of sustainability research funding  
to total research funding  
**32%**

Number of scholarly publications on sustainability  
(Average annually for the past 3 years)  
**13.66**

# Education and Research

Number of events related to sustainability  
(Average annually for the past 3 years)

34.66





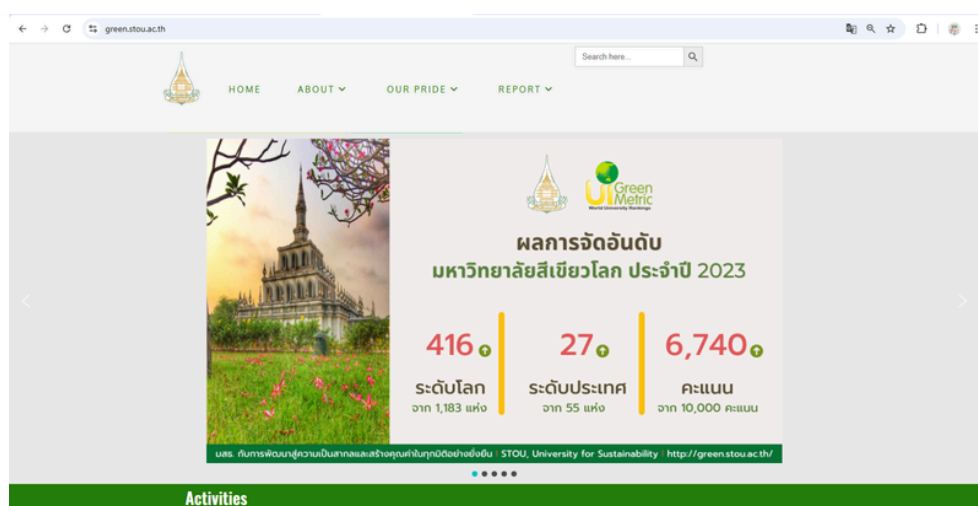
# Education and Research

Number of activities organized by student organizations related to sustainability per year

23



University-run sustainability website  
Website is available, accessible and updated occasionally.



Sustainability website address (URL)  
<https://green.stou.ac.th/>





# Education and Research

Sustainability report  
Sustainability Report is accessible and  
published annually.



## STOU SUSTAINABILITY ANNUAL REPORT



# Education and Research

Number of cultural activities on campus  
36 Events per year



Sukhothai Thammathirat Open University

# Education and Research

Number of university programs  
with international collaborations  
**7 programs per year**



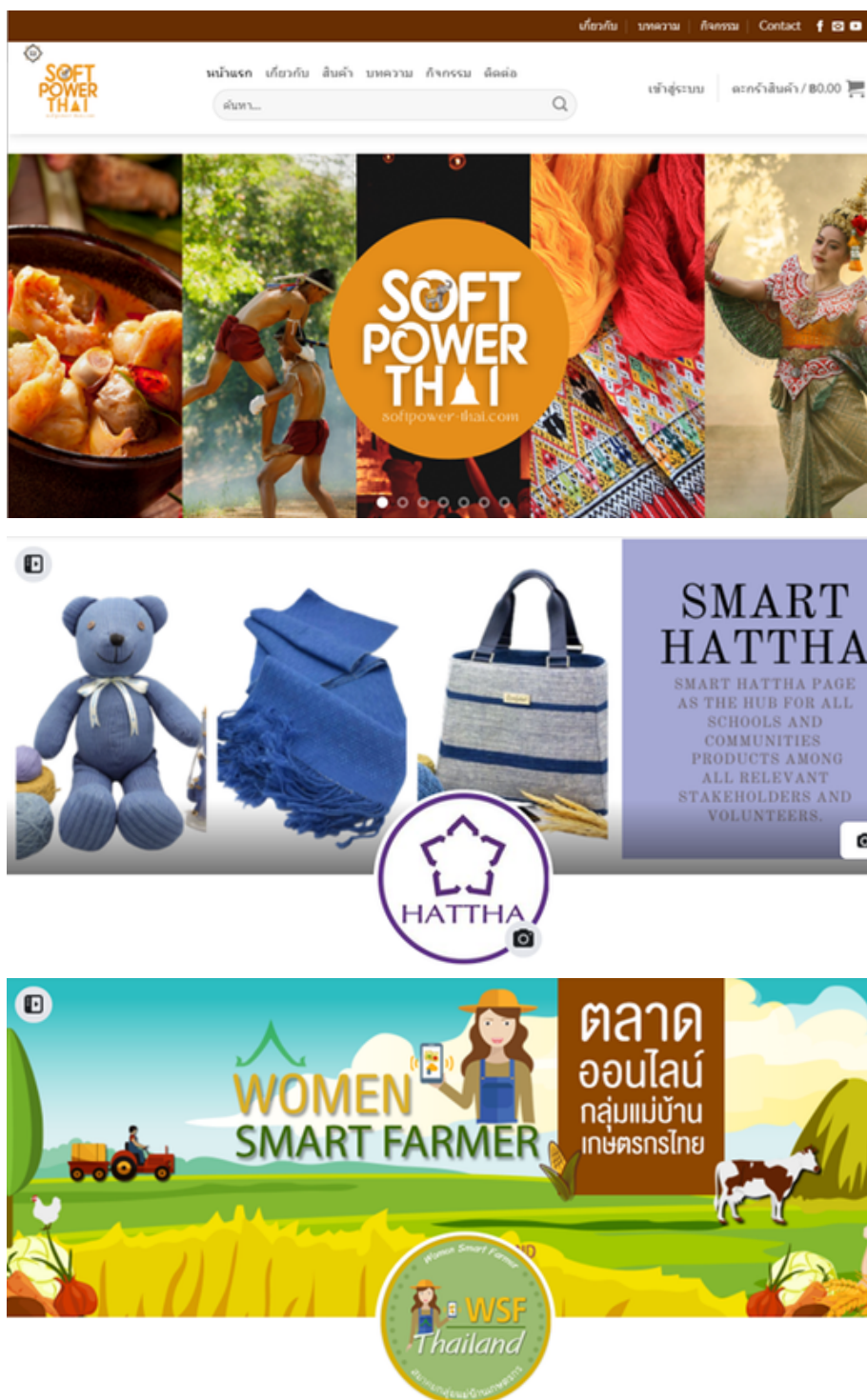
Number of sustainability community services project  
organized and/or involving students  
**7 programs per year**





# Education and Research

Number of sustainability-related startups  
**8 startups**



**Women Smart Farmer Thailand**

341 การกดถูกใจ • ผู้ติดตาม 357 คน

# Education and Research

Total number of graduates with green jobs  
**252 Graduates in Academic Year 2021-2023**

Availability of Units or Offices that coordinate  
 or are related to sustainability

Units with university leader decree of  
 establishment, structure and duties has been  
 operational and lead the university  
 implementation of sustainability

## GREEN UNIVERSITY DEVELOPMENT STEERING COMMITTEE



ASST. PROF. DR.  
**PHANOMPATT SMITANANDA**  
 COMMITTEE CHAIRMAN



ASSOC. PROF. DR.  
**THANASAK SALJAMPA**  
 VICE CHAIRMAN



ASSOC. PROF. DR.  
**KITTIPONG KEATWATCHARACHAI**  
 COMMITTEE



ASST. PROF. DR.  
**THERADEJ MANOLEEHAGUL**  
 COMMITTEE



MR. KASIT  
**CHANTAWONG**  
 COMMITTEE



ASSOC. PROF. DR.  
**NARATHIP SRI RAM**  
 COMMITTEE



ASSOC. PROF. DR. GAN  
**CHANYAWUDHIWAN**  
 COMMITTEE



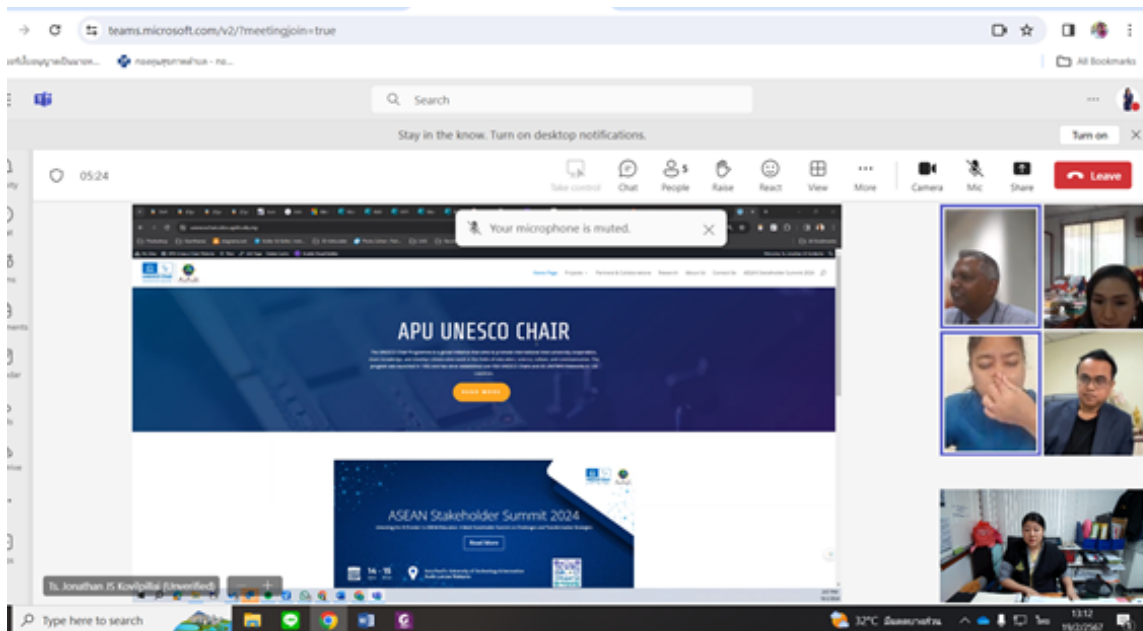
ASSOC. PROF. SARAVUTH  
**SUTHAMMASA**  
 COMMITTEE



MRS. RATTIP  
**PHUAKKESON**  
 COMMITTEE AND  
 SECRETARY

# Education and Research

Planning, Implementation, monitoring and evaluation of university governance through the utilization of information and communication technology (ICT) Program has been implemented and evaluated



## DI-GIRLS Project Phases

Phase/Year	Core Action
Phase 1 (Jan 2023 – Dec 2023)	Literature Review, instrument development data collection and analysis
Phase 2 (Jan 2024 – Dec 2024)	Creating content and pilot testing
Phase 3 (Jan 2025 – Dec 2025)	Deployment
Phase 4 (Jan 2026 – Dec 2026)	Reporting & Publications



# Low Emission Support Scheme: LESS



# Low Emission Support Scheme: LESS





## CONTACT US

### Headquarters

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