Annual Report

SDG 13: Climate Action

13.3 Environmental Education Measures

13.3.1 Local climate-change education and awareness campaigns

Thaksin University places high importance on addressing climate change by fostering knowledge, awareness, and adaptive capacity within local communities. The university aims to reduce greenhouse-gas emissions and enhance carbon sequestration, supporting sustainable development and strengthening resilience to climate-related risks at the local level.

In line with Thailand's national objectives and global sustainable development priorities, the University has affirmed its commitment to supporting the transition towards carbon neutrality. Its participation in the "ECOLIFE in U" initiative demonstrates this commitment. In 2024, Thaksin University was recognised as one of the three highest-performing higher education institutions nationwide under the ECOLIFE in U programme.

On 26 August 2025, the University promoted an institutional campaign encouraging staff and students to recognise the importance of waste reduction and contribute to carbon neutrality through "ECOLIFE in U". The initiative was organised by the Ministry of Higher Education, Science, Research and Innovation (MHESI), in collaboration with Kidkid Co., Ltd., to foster practical participation and environmentally responsible behavioural change among university staff and students.









Source : https://tsu.ac.th/home/details.php?id=5442

In addition, the Faculty of Science and Digital Innovation has continuously promoted climate education and public awareness through research-based activities and academic outreach programs. Key initiatives are outlined below.

Key climate-related education and engagement initiatives

1. Carbon Sequestration Education and Learning Activities

University units have implemented educational programs on carbon management and carbon sequestration. Selected activities include the following.

1.1 "CARBONOGRAPHY": Carbon Management and Scientific Photography for Local Resource Conservation

The Research and Innovation Institute of Thaksin University, which serves as a coordinating center for the Plant Genetic Conservation Project under the Royal Initiative of Her Royal Highness Princess Maha Chakri Sirindhorn, organized the "CARBONOGRAPHY" workshop on carbon management and scientific photography for local resource conservation.

The workshop brought together 21 participants, including teachers and school students from local schools, students from the Faculty of Technology and Community Development at Thaksin University, and personnel from subdistrict municipalities.

The program promoted environmental awareness and introduced practical applications of modern technologies, including mobile applications and clinometers for measuring tree height and estimating stored carbon. It also covered organizational carbon management and scientific photography.

Participants gained knowledge and practical skills that could be integrated into classroom teaching, extended to community-based applications and used as a foundation for strengthening climate adaptation capacity.













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1.2 "Raising Awareness of Natural Resource Conservation and Restoration" Program

The Faculty of Science and Digital Innovation, in collaboration with the Phatthalung Provincial Office of Natural Resources and Environment, delivered educational activities for young people in Phatthalung Province. Participants explored the causes and consequences of global warming, learned methods for estimating carbon stored in trees and took part in tree-planting activities. The program sought to strengthen awareness of the role of forest resources in mitigating climate change.

In 2025, the program reached 240 participants across three schools: Si Banphot Pittayakhom School, Praphatsan Rangsit School and Panyawut School.








1.3 Academic Outreach Program on Science and Climate Change

The Academic Services Division of the Faculty of Science and Digital Innovation organized a series of outreach activities aimed at improving scientific understanding of climate change, as described below.

1.3.1 “Exploring the World of Science: TSU Academic Outreach Camp”

This activity developed students’ scientific observation and field-data collection skills through practical, real-world learning. Its learning stations included GLOBE-based activities

on soil analysis, identification and sorting of mosquito larvae, and the measurement of tree height to estimate carbon stored in trees.

A total of 50 students from Ubolratana Rajakanya Ratchawittayalai School in Phatthalung Province participated in the camp.













Source:

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1.3.2 “SciDi BOOST CAMP: Advancing Young Scientific Thinkers”

Designed for upper-secondary students, this hands-on program sought to stimulate interest in scientific learning, inspire participants and support their preparation for further study in science. Learning stations covered chemistry, mathematics, biology, physics, computing and environmental studies. The environmental component included a carbon exploration activity and an exercise in identifying trees. The program involved 20 students from several schools.











Source:

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1.4 Workshops on “Climate Change” and “GLOBE Protocols”

The Faculty of Science and Digital Innovation, working in conjunction with the Institute for the Promotion of Teaching Science and Technology (IPST) and UNICEF Thailand, organized workshops on climate change and GLOBE Protocols for 47 teachers from nine network schools. The training aimed to strengthen understanding of environmental challenges and develop the use of scientific methods for environmental observation and data analysis. Participants completed three learning components: (1) climate change, (2) GLOBE Protocols and (3) the formulation of research questions and research problems.






Source:
https://www.facebook.com/2018GLOBETSU/posts/pfbid0jELvpNsUm2LeHNATf9y2LmHXgzfXYU6fy2PoHBAFaft4uVj8pk32E4T4bVx7bf35l?rdid=Mv66tQ5F0skAyqtk

The Secondary Education Division of Thaksin University Demonstration School also conducted a GLOBE Protocols workshop and climate change learning activities for Grade 8 (Mathayom 2) students in 2025. Held at the school, the program was designed to enhance students' knowledge and skills in environmental monitoring and strengthen their awareness of how climate change affects everyday life.









Source: https://tsu.ac.th/home/details.php?id=5159

2. Campus Tree-Planting and Green Space Initiatives

Establishment of "Thaksina Forest Park"

On 26 February 2025, Thaksin University, Phatthalung Campus, in collaboration with the Student Affairs Division, organized a tree-planting activity to establish "Thaksina Forest Park" in an area north of the Faculty of Nursing. The site covers more than 31 rai (approximately 4.96

hectares), and 1,307 trees were planted. The initiative aims to support environmental protection and restoration as part of the University's contribution to climate change mitigation.





Source: https://tsu.ac.th/home/details.php?id=4860

"Plant Together, Care Together" Initiative at Thaksin University, Phatthalung Campus

On 27 December 2025, the Phatthalung Campus Office and the Student Affairs Division jointly organized the "Plant Together, Care Together" activity to expand green spaces and promote a greener, more sustainable campus environment. More than 300 students and staff participated, collectively planting over 900 trees.



Source:
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3. Greenhouse Gas Emission Reduction Initiatives

Since the first semester of academic year 2024, Thaksin University, Phatthalung Campus, has operated a daily shuttle service for university staff, students and school pupils travelling within the campus. The service has continued as an ongoing campus mobility measure.

In 2025, the University also expanded its free shuttle services to routes within and outside the campus, improving convenient and safe access for school pupils, university students, staff and campus visitors.

By providing a shared transport option, the service is intended to reduce reliance on private vehicles, lower energy consumption and contribute to the reduction of greenhouse gas emissions.











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