



SDGs REPORT 2023-2024



Table of Contents

SDGs

หน้า

| | |
|--|-----------|
| SDG 1 : No Poverty | 1 |
| SDG 2 : Zero Hunger | 3 |
| SDG 3 : Good health and well-being | 6 |
| SDG 4 : Quality Education | 9 |
| SDG 5 : Gender Equality | 11 |
| SDG 6 : Clean water and sanitation | 13 |
| SDG 7 : Affordable and clean energy | 15 |
| SDG 8 : Reducing Energy Consumption Plan | 17 |
| SDG 9 : Industry innovation and infrastructure | 19 |
| SDG 10 : Reduced Inequalities | 21 |
| SDG 11 : Sustainable cities and communities | 23 |
| SDG 12 : Responsible Consumption and Production | 26 |
| SDG 13 : Climate Action | 28 |
| SDG 14 : Life Below Water | 30 |
| SDG 15 : Life On Land | 32 |
| SDG 16 : Peace, justice and strong institutions | 34 |
| SDG 17 : Partnerships for the goals | 36 |



Nakhon Si Thammarat
Rajabhat University



1

NO POVERTY



Low-income student support



Provide assistance in the local community supporting the start-up of financially and socially sustainable businesses

1 NO POVERTY



Low-income student support

University has implemented a program to provide educational loans to students who lack financial resources. The Student Loan Fund is a program that provides educational loans to students at the higher education level. The objective is to increase educational opportunities for those who lack financial resources. Students can borrow funds throughout their entire course of study, and they must start repaying the loan after graduation when they have sufficient income. The borrowing limit depends on the student's educational expenses and family financial status.

In the 2023 academic year, the university has provided 1,478 student loans, which students can use to pay for their tuition fees and monthly living expenses. Through this arrangement, students can use the funds to purchase nutritious food and enjoy a better quality of life.



Provide assistance in the local community supporting the start-up of financially and socially sustainable businesses

The Nakhon Si Thammarat Rajabhat University has launched a community assistance initiative to enhance the value of products derived from the community's resource base. The purpose of this initiative is to improve and expand the quality of artisan chocolate production from local cocoa, thereby transforming it into a distinctive product that embodies the province's identity. The development of cocoa into an economic plant with sustainable value in all aspects will be a critical factor in the growth of the indigenous economy in the region. The initiative has increased the income of entrepreneurs and had a positive impact on the community through its activities.

- 1) Local cocoa production is significantly influenced by the establishment of a genetic identity and the comparison of the quality of fresh cocoa produce, resulting in a distinctive product for Nakhon Si Thammarat Province.
- 2) In order to facilitate community-level cocoa processing, create a solar energy dehydrator that employs infrared heat and rotation to dry cocoa beans.

- 3) By utilizing the residuals from cocoa fermentation for commercial purposes, the value of the product is increased by over twofold in the production of jelly from cocoa residue.

- 4) In an effort to appeal to the health-conscious and younger demographics, Nakhon Si Thammarat cocoa has created a novel chocolate spread that incorporates two local raw materials from the area: cocoa beans and cocoa itself. The product's value is enhanced by 2.57 times due to its proportion of omega 3-6-9 fatty acids and all 9 essential amino acids for the body. Consequently, it possesses significant nutritional value.

- 5) Fabric pattern innovation from the residual raw materials and natural cocoa hues of cocoa fruits.

- 6) Increase the value of cocoa products by over twofold and establish a 22 percent income distribution throughout the value chain.





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2

ZERO HUNGER



Campus food waste tracking



Student food insecurity and hunger
(Year: 2023)



Events for local farmers and food
producers



University access to local farmers and
food producers





Campus food waste tracking

The university emphasizes recycling and waste management as essential components of a sustainable ecosystem. Within the organization, the university fosters and establishes shared accountability. To accomplish the zero-waste target and carry out the waste management plan, the university has also set up a waste management policy and budget. To facilitate the daily sorting of waste on campus, the university has

started a waste management project that aims to separate waste that is acceptable for sale to a waste recycling company. We efficiently use the leaf scraps and twigs that make up over 75% of the organic waste on campus by crushing, composting, and repurposing them to feed the campus trees. Approximately 15% of the food waste from trading was given to the villagers' animals. The university operations employ leftover food to feed animals, collect leaves from cleaning the area in pens to decompose and make fertilizer, and use decorative plants from waste management to advertise events on campus. However, to assess the amount of food waste, the university follows city protocols.



Student food insecurity and hunger (Year: 2023)

The university offers programs that facilitate the production and distribution of products, such as the aquaponics program within the agriculture program, which prioritizes sustainable agriculture. Students acquire knowledge regarding the cultivation of vegetation without soil. Students acquire the ability to harvest, boil, and sell the vegetables once they have reached maturity in order to generate revenue for additional farming endeavors. In addition, the culinary science curriculum provides a concurrent cooking and food preparation program. Students acquire culinary skills, acquire the ability to prepare and cook food, and develop a menu. The students may consume and resell the cooked food after the preparation process is finished, and they may use the proceeds to purchase the ingredients for the subsequent meal. This program can serve as a resource for students to acquire knowledge about agricultural and cooking techniques, potentially resulting in a broader understanding of the cultivation and preparation of food.





Events for local farmers and food producers

The university currently operates a technology consulting service project to develop production through the “Technology Consulting Service” (TCS) unit, with the aim of developing technology consulting and information services for target groups

in the area, enabling efficient network management, and coordinating and linking with government and private agencies. In the academic year 2023, the university conducted consulting activities on the development of Tab Tim Siam pomelo juice products at Suan Bandit, Nakhon Si Thammarat Province, to solve problems related to the taste and shelf life of the products. In addition, the project also transferred the processing process of mangosteen products, especially mangosteen wine, which included training on food sanitation principles, applying for GAP and Halal certification for honey, developing techniques for removing moisture from honey using a hot air oven, and implementing the production of value-added products from honey, such as candies and jellies. Consultation and knowledge transfer activities have continuously provided benefits to farmers on a wide scale.



University access to local farmers and food producers

The university has a science center that provides analysis services for all types of samples, including drinking water, tap water, groundwater, wastewater, product samples, food, beverages, soil, plants, fertilizers, and herbs. In addition, the university also has agricultural demonstration plots, fish breeding ponds, and tissue culture laboratories. The university's facilities are accessible to the public, farmers, students, and entrepreneurs. Since the commencement of operations in 2023-2024, the number of service users has consistently increased.





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3

GOOD HEALTH AND WELL-BEING

Number of health professional graduates

Deliver outreach programmes and projects in the local community (which can include student volunteering programmes) to improve or promote health and well-being including hygiene, nutrition, family planning, sports, exercise, aging well, and other health and well-being related topics. This can also include outreach programmes to displaced or refugee communities local to the institution.

Mental health support for students





Number of health professional graduates

Proportion of health professional graduates in 2023

Nakhon Si Thammarat Rajabhat University has focused on presenting graduates with a mindset on contributing to society in both government and private sectors continuously. There are students who graduate every year. In the academic year 2023, there were a total of 2,177 graduates. Of this total, 70 students (accounting for 0.032 of all graduates) were health professionals graduated from Public Health Programme, Faculty of Science and Technology, including 67 standard course graduates and 3 personnel continuing education course graduates. Details are shown in Table 3.2.1. Table 3.2.1 Proportion of health profession graduates in Year: 2021 - 2023

| Year | Total number of graduates | Public health programme | | Percentage of health profession graduates |
|------|---------------------------|-------------------------|---------------------------------------|---|
| | | Standard course | Personnel continuing education course | |
| 2023 | 2,177 | 67 | 3 | 3.22 |
| 2022 | 1,652 | 56 | 3 | 3.57 |
| 2021 | 2,003 | 54 | 16 | 3.49 |



Deliver outreach programmes and projects in the local community (which can include student volunteering programmes) to improve or promote health and well-being including hygiene, nutrition, family planning, sports, exercise, aging well, and other health and well-being related topics. This can also include outreach programmes to displaced or refugee communities local to the institution.

Nakhon Si Thammarat Rajabhat University has implemented a project aimed at enhancing health care skills, vocational abilities, and life skills for people with disabilities and their caregivers. The project targets 80 people with disabilities and 40 caregivers and community health personnel. The project is carried out through the following activities:

1. Development of Physical and Mental Health Care Skills

This activity focuses on enhancing holistic health care skills for people with disabilities, their caregivers, and community health workers. The target groups include Village Health Volunteers (VHV), public health professionals, and caregivers living in nearby areas. The objective is to upskill and reskill them in promoting and managing health, so they can serve as role models in supporting people with disabilities within their communities. This is achieved through workshops and the extraction of lessons learned, which will be compiled into a practical manual for use in the community.

2. Enhancing Vocational Skills and Food Preparation

This activity focuses on improving vocational skills, including food processing and non-food-related skills for people with disabilities and their caregivers. The program involves practical training workshops and knowledge transfer through Tech Transfer, where learners engage in real-world case studies of successful models. The training also emphasizes building competencies for becoming successful entrepreneurs.

3. Enhancing Learning Skills in the Modern World for People with Disabilities and Caregivers

This activity aims to equip people with disabilities and their caregivers with the skills to use information technology systems in their daily lives. The project is delivered through interactive workshops and training sessions focused on integrating technology into basic daily activities.

4. Enhancing Life Skills and Basic Personal Development for People with Disabilities and Caregivers

This activity aims to improve life skills and personal development for people with disabilities and their caregivers, enabling them to lead more independent and fulfilling lives. The program includes practical workshops, study tours focusing on tourism and recreation, and design thinking exercises where learners are encouraged to actively participate in designing solutions. The focus is to empower caregiver trainers (Facilitators) to effectively create and share best practices for supporting people with disabilities. These approaches are then intended to be shared with other local centers dedicated to the development of disability skills and vocational training.





Mental health support for students

Nakhon Si Thammarat Rajabhat University continuously supports the mental health of its students throughout their academic programs. The university conducts mental health assessments for incoming students, particularly for those in the Faculty of Education and the Faculty of Science (Public Health Program). The university has a policy of closely monitoring students through academic advisors, requiring meetings with students at least twice a month. Additionally, online consultations are available 24/7. Every faculty also has a counseling center, where faculty members provide

initial support, and the Student Development Division offers mental health advice. Staff at the university's health center, along with mental health specialists, assist students in need.

The university evaluates depression using the CES-D scale for its students. The results show that 75.41% of students are within the normal range, while 24.59% exhibit signs of depression. In terms of stress, the ST-5 scale indicates that 87.59% of students experience low to moderate stress levels, while 12.41% face high to severe stress levels (according to health assessment data for the academic year 2023, based on a sample of 437 students from various faculties).

The university also organizes activities to promote mental health among students through orientation programs at the university, faculty, and department levels, providing guidance on adaptation to university life and strategies for well-being. Furthermore, the Public Health Program has plans to organize activities focused on mental health management within the university. Additionally, the university offers recreational activities aimed at improving physical health, mental well-being, emotional health, and personal development. These activities also foster teamwork, unity, responsibility, positive mindset, adaptability, and problem-solving skills. Some of the activities promoting and supporting students' mental health include:

"Aom Tour, Aom Jai" Activity held on September 24, 2023, in the main conference room at Nakhon Si Thammarat Rajabhat University, in an onsite format. A total of 2,150 participants attended the event, which offered insights on relationships and mental well-being.

Mental Health Strengthening and Anti-Drug Activities were conducted through the "To Be Number One" program. Due to the successful implementation of this program, the university received a royal award and was recognized as a silver-level model institution in its first year.





Nakhon Si Thammarat
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วิทยาลัยราชภัฏนครศรีธรรมราช



4 QUALITY EDUCATION

Vocational training events
(lifelong learning)

Education outreach activities
beyond campus



Vocational training events (lifelong learning)

The university has the UBI-NSTRU (University Business Incubator Nakhon Si Thammarat Rajabhat University) Center, which is responsible for promoting the transfer of research and innovation outcomes generated by the university to the business world. The center organizes activities to develop students, alumni, and interested people to be ready to become entrepreneurs.

The university has the potential and readiness to bring knowledge and expertise in various fields of study, including business management and specialized knowledge in professional practice, to create careers. An example of a course is "Making Ready-to-Eat Southern Curry Paste", which recognizes the importance of making ready-to-eat southern curry paste into a product that can be turned into a business. Therefore, a short-term vocational skills training program has been organized to increase knowledge, skills, and career approaches.

Education outreach activities beyond campus

The university has started the "Development of Local Innovation Curriculum and Eco-Museum of the Border Patrol Police School in the Southern Region" project as a research and knowledge creation initiative. By fostering knowledge that is appropriate for the current context, this initiative endeavors to instill a variety of values in the communities of the Border Patrol Police School. This approach, based on local knowledge, expertise, and resources, tailors learning to the unique context of the Border Patrol Police School.

- 1) Development of the Brain Skills (EF) curriculum for early childhood children by utilizing toys made from local materials at the Border Patrol Police School in Ban Khao Wang, Ron Phibun District, Nakhon Si Thammarat Province;
- 2) Development of the local curriculum to support learning in the Thai language at the Border Patrol Police Learning Center in Ban Lang Ai Mi, Cha-uat District, Nakhon Si Thammarat Province;

- 3) Development of the Environmental Education Curriculum for Justice for People of Different Generations at the Border Patrol Police Learning Center in Ban Phaen Din Samoe, Khlong Thom District, Krabi Province;

- 4) Development of the Health Promotion Curriculum with Folk Games to Improve the Physical Movement Ability and Health of Students at the Santirat Pracha Bamrung Border Patrol Police School and Ban Hin Chok Border Patrol Police School. District Palian, Trang Province

- 6) Developing an eco-museum to improve the educational experience at the Santirat Pracha Bamrung Border Patrol Police School in Palian District, Trang Province

- 7) A curriculum for parents to promote early childhood development is being developed at the Ban Huai Tong Border Patrol Police Learning Center in Nopphitam District, Nakhon Si Thammarat Province, with the local area serving as a foundation.

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5 GENDER EQUALITY



Non-discrimination policies
for transgender



Childcare facilities for staff
and faculty





Non-discrimination policies for transgender

The university uses the guidelines for promoting equality and eliminating unfair discrimination between the sexes in accordance with the Gender Equality Act of 2015, which stipulates that all persons are equal before the law, have equal rights and freedoms, and are protected under the law. Men and women are equal, and there is no discrimination against individuals, regardless of differences in language, race, origin, religion, or gender.



Childcare facilities for staff and faculty

The Satit school, or demonstration school, is an integral part of Nakhon Si Thammarat Rajabhat University. It operates under the direct administration and supervision of Nakhon Si Thammarat Rajabhat University. The school's teachers are university faculty members who also teach at the university.

Students at the Satit school benefit from the latest teaching methods and technologies used at the university. The school

acts as a hub for educational research and development projects undertaken by the university. Satit school admissions are competitive due to its reputation as a high-quality, university-affiliated institution. Satit schools teach from nursery to lower secondary levels, so university staff can send their children to study there.





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ENVIRONMENTAL PROTECTION



6

CLEAN WATER AND SANITATION



Non-discrimination policies
for transgender



Preventing water system pollution



Non-discrimination policies for transgender

The program of Environmental Science at Nakhon Si Thammarat Rajabhat University has consistently conducted efforts to promote water resource management. The objective of water management education is to include water-related concepts, practices, and issues in the educational programs and curriculum provided in schools. This encompasses the establishment of experiential learning opportunities, including field trips and citizen science initiatives,

the enhancement of awareness via school campaigns, the provision of professional development for educators, and the implementation of interdisciplinary methodologies to link water management with overarching themes such as sustainability and community resilience. The major objective is to equip students with the knowledge, skills, and motivation necessary to become informed, responsible, and proactive stewards and decision-makers in the sustainable use and protection of water resources.



Preventing water system pollution

The Environmental Protection Club excavated drainage ditches in and around the institution. Dredging drainage canals involves the physical extraction of accumulated sediment, debris, and plants from the bottoms and sides of drainage channels, canals, and waterways. This is executed to: Enhance water flow and drainage efficiency: Dredging eliminates accumulated debris that hinders the natural water flow, hence optimizing the performance of drainage systems and mitigating flooding risks. Improve water quality: Eliminating sediment, contaminants, and organic material from the stream can enhance overall water quality.





Nakhon Si Thammarat
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electric bikes

W TOYS



7

AFFORDABLE AND CLEAN ENERGY



Plan to reduce energy
consumption



Carbon reduction and
emission reduction process



Plan to reduce energy consumption Carbon reduction and emission reduction process

The university is organizing training on the solar power generation system to prepare for its use. The goal of this training is to ensure that university personnel have the knowledge and understanding necessary to correctly use and maintain the system in accordance with acceptable academic principles. Furthermore, the university staff will gain additional knowledge about the solar power generation system, leading to significant benefits and value for the government. This will allow the university to make use of clean energy while simultaneously lowering its overall electricity expenses. The university has begun using solar cells as its primary alternative energy source. Moreover, in order to reduce carbon emissions, the university offers electric bicycles.





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8

REDUCING ENERGY CONSUMPTION PLAN



Employment policy on
discrimination



Employment practice
equivalent rights outsourcing





Employment policy on discrimination Employment practice equivalent rights outsourcing

Nakhon Si Thammarat Rajabhat University acknowledges the significance of ethics and openness. The university has commenced the ITA (Integrity and Transparency

Assessment) for the fiscal year 2024, intending to develop policies, examine challenges, and devise strategies to communicate information regarding the activities of Nakhon Si Thammarat Rajabhat University. This entails supervising, assessing, and regulating the enhancement of operations in accordance with the recommendations provided by the ITA (Opportunity for Improvement: OFI) Evaluation Committee. The initiative is titled "Development Plan and Improvement Measures Based on the Results of the ITA" (Integrity and Transparency Assessment) at Nakhon Si Thammarat Rajabhat University. Nakhon Si Thammarat Rajabhat University (ITA) has scheduled the workshop to evaluate the ethics and transparency criteria for the fiscal year 2024 from November 22, 2023, to January 24, 2024.

1. To get information that will aid in formulating strategies to enhance and advance operations in accordance with the recommendations derived from the Integrity and Transparency Assessment (ITA) results.
2. To enhance the evaluation of ethics and transparency in the operations of Nakhon Si Thammarat Rajabhat University
3. To assess the preliminary data related to the ethics and transparency of activities at Nakhon Si Thammarat Rajabhat University
4. To notify Nakhon Si Thammarat Rajabhat University of the protocols for enhancing or advancing ethics and transparency in operations





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9

INDUSTRY INNOVATION AND INFRASTRUCTURE



Patents citing university
research



Research income from
industry and commerce





Patents citing university research Research income from industry and commerce

RDI serves as the university's cornerstone for research activities, led by a director appointed by the president. Focused on propelling research quality and creative work. It fosters research that impacts regional development and elevates them to an international level. They achieve this by facilitating comprehensive research programs designed to generate high-quality research results, create impactful research products, and cultivate innovative solutions that meet international standards as follows.

2.1 Create knowledge and understanding for faculty and researchers about the full cycle of research by organizing projects/activities such as providing budget support for research grants from the research fund, workshops focus on developing strong research questions, fostering creative and innovative approaches, and ensuring ethical practices in human research, RDI team facilitates progress monitoring done by both internal and external experts, training equips researchers with skills for writing impactful academic articles for publication in national and international journals, and consulting and training programs empower researchers with knowledge on intellectual property rights and knowledge management. It supports the dissemination of research findings for practical application, while also recognizing and honoring outstanding faculty and researchers in research and creative work.

2.2 Create a research cooperation network both national and international agencies.

2.3 Scholarly Publication Support: develops university journals, aiming for inclusion in the TCI Thai Journal Citation Index Group 1 database and international recognition.

2.4 Streamlined Information Systems: implements user-friendly information systems to provide quick and convenient access to essential research resources, such as funding opportunities, budget information, research and creative work databases, and specialized research unit details.

2.5 Comprehensive Research Guidelines: reviews and updates research regulations, announcements, and guidance documents to facilitate research operations.





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10

REDUCED INEQUALITIES

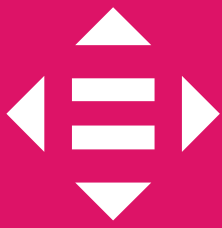


Commitment to Non-
discriminatory Admission



Eliminating Gender
Discrimination on Campus





Support for underrepresented groups Accessible facilities

The university uses the guidelines for promoting equality and eliminating unfair discrimination between the sexes in accordance with the Gender Equality Act of 2015, which stipulates that all persons are equal before the law, have equal rights and freedoms, and are protected under the law. Men and women are equal, and there is no discrimination against individuals, regardless of differences in language, race, origin, religion, or gender.

In addition, the university has provided accessible facilities for the disabled, including ramps for the disabled, elevators, accessible restrooms, and a guidance and counseling center for students with disabilities.





11

SUSTAINABLE CITIES AND COMMUNITIES



Provide public access to buildings and/or monuments or natural heritage landscapes of cultural significance



Provide public access to museums, exhibition spaces or galleries, or works of art and artefacts



Measure and set targets for more sustainable commuting (walking, cycling or other nonmotorized transport, vanpools, carpools, shuttlebus or public transportation, motorcycle, scooter or moped, or electric vehicles)



Build on brownfield sites, where possible

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คนราชภัฏ





Provide public access to buildings and/or monuments or natural heritage landscapes of cultural significance

Nakhon Si Thammarat Rajabhat University maintains significant cultural heritage sites accessible to the public, allowing all to experience and appreciate these cultural landmarks. These sites include:

1. Phra Phuttha Sihing Ming Maha Chai

The world's largest Phra Phuttha Sihing statue, located at the base of Mount Maha Chai within the university grounds. It is modeled after the Nakhon Si Thammarat style, with a width of 9.84 meters and a height of 26.00 meters.

2. Phra Phuttha Sihing Pavilion

A dedicated hall for the Phra Phuttha Sihing statue.

3. Chao Pho Maha Chai Shrine

A revered shrine within the community.

4. Sacred Water Well of Khao Maha Chai

One of six important sources of sacred water in the province, located on the university grounds and highly respected by the local community.

5. Mount Maha Chai and Mount Lak Kai

The sacred mountainous region where the university is situated. Local beliefs, from Tha Ngiew Village to Phrom Lok Village, hold that these areas are under the protection of sacred spirits associated with Mount Maha Chai.

These heritage sites play a vital role in community identity, serving as cultural touchstones for worship and reverence for both residents and visitors.



Provide public access to museums, exhibition spaces or galleries, or works of art and artefacts



Nakhon Si Thammarat Rajabhat University provides exhibition spaces and galleries to showcase artwork and academic projects. Key locations include the Phakdi Damrong Rit Building, the main auditorium, Fine Arts Building, and NSTRU Southern Local Development Intelligence Center. The university regularly hosts a variety of events, such as the National Science Fair (Regional), the "NSTRU Research and Innovation Open House 2024," the Appropriate Technology Exhibition, and the Social Engineers' Open House Exhibition. Additionally, the university collaborates with local network sites, including the Shadow Puppet Museum (Suchat Subsin's House), Muang Khon Contemporary Art Gallery, Nakhon Si Thammarat City Learning Park (CLP), Si Thammasokarat Public Park, the Provincial Administrative Organization's theater, and Central Plaza Nakhon Si Thammarat. These venues have hosted events such as the Nakhon Si Thammarat Learning Festival under the theme "KhonNext: Connecting Roots to the Future," the Soft Power Handicrafts Festival 2024, and the "Southern Development Initiative: Rajabhat University for Local Development."

The university has also presented academic fairs, exhibitions of local products, and exhibitions in support of the Royal Project on Plant Genetic Conservation (RSPG), along with the 24th Student Creative Design Exhibition. These events demonstrate the university's dedication to regional development, cultural preservation, and fostering local knowledge and innovation.

11 SUSTAINABLE CITIES AND COMMUNITIES



Measure and set targets for more sustainable commuting (walking, cycling or other nonmotorized transport, vanpools, carpools, shuttlebus or public transportation, motorcycle, scooter or moped, or electric vehicles)

Nakhon Si Thammarat Rajabhat University offers the GO GO BIKE electric scooter service for safety, convenience, speed, and zero emissions. This service is available for students, staffs, and the public within the university. There are 40 service points around the campus with a total of 200 scooters. The scooters are easy to use through a user-friendly mobile application.

The GO GO BIKE initiative reflects Nakhon Si Thammarat Rajabhat University's commitment to lowering carbon emissions and encouraging environmentally friendly transportation. By providing sustainable campus mobility solutions, the university positions itself as a regional leader in eco-friendly transportation. This holistic approach not only improves campus accessibility but also cultivates a culture of environmental responsibility within the university community, setting a positive example for other educational institutions across Southeast Asia.



Build on brownfield sites, where possible

Nakhon Si Thammarat Rajabhat University has established the Royal Initiative Practical Learning Center for Local Development; known as 1 Rai Hai Jon Khon (the "1 Rai to End Poverty for Rajabhat People") on a 14-rai (22,400 m²) plot of land located approximately 1 kilometer from the university.

This previously unused land is now dedicated to training students and local community members in grassroots economic practices and

sustainable land management. The center emphasizes community-based learning for self-reliance, vocational training, crop and vegetable cultivation, and the preservation of local wisdom for future generations. Its aim is to improve the quality of life for local communities and to support grassroots economic growth.

Currently, the university has also established a community market called "Lat Tha Ngiew" to support the livelihoods of people in Tha Ngiew district and surrounding communities near the university. This space is used for community activities, vocational training, and as an educational site for the Tha Ngiew community and nearby organizations.





Nakhon Si Thammarat
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12

RESPONSIBLE CONSUMPTION AND PRODUCTION



Process or practice on waste disposal - Covering hazardous materials



Policy for minimization of plastic use



Process or practice on waste disposal - Covering hazardous materials

The university manages waste for recycling. There is a waste separation campaign. The paper is reused and recycled through industrial processes. Plastic is recycled through industrial processes. General waste is disposed of through city processes.

The university placed importance on disposal of toxic waste, which was caused by experiments in science laboratories. Then, we use standard collection and destruction processes. To start from waste management within the building and all laboratories by sorting, collecting, storing, and disposing to reduce the impact that may occur to operational officials, including the environment. All toxic waste that has been sorted and preserved will then be eliminated by professional companies.



Policy for minimization of plastic use

The university focuses on waste treatment and recycling as a key factor in creating a sustainable environment. The university promotes and creates shared responsibility in the organization. Additionally, the university has established a policy and budget for waste management, aimed at achieving the zero-waste goal and adhering to the waste management plan. The university has instituted a waste recycling program that facilitates students and staff in determining which materials (plastic, paper, glass, and aluminum) are suitable for recycling in a single container. It enhances convenience for operators and encourages the recycling of electronic waste, old batteries, and light bulbs. It should not be thrown into general trash because it contains high concentrations of toxic chemicals and heavy metals.





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13

CLIMATE ACTION



Environmental education
collaborates with NGO



Inform and support local or
regional government in local
climate change disaster or risk
early warning and monitoring





Environmental education collaborates with NGO

The university participated in the "Youth Leaders of Change Towards Communities that Cherish Their Local Areas and the World" initiative and carried out the Memorandum of Understanding (MOU) on academic collaboration between the Ministry of Natural Resources and Environment and 38 Rajabhat Universities. General Dapong Rattanasuwan, a Privy Councilor, officiated the project inauguration and served as an honorary witness to the MOU signing at the Maida Hotel, Don Mueang Airport, Bangkok.



Inform and support local or regional government in local climate change disaster or risk early warning and monitoring

Nakhon Si Thammarat Rajabhat University was awarded for its recognition of the Children and Youth Network on Climate Change and the Environment. The evaluation outcomes of the children and youth network initiative concerning climate change and the environment for the year 2024 were rated at the #gold standard in the "Plastic Tube Pillow" project, while the assessment results of the university's environmental activity project for youth (Green Youth) in 2023 were rated at the #silver standard in the "Scan For Us" project, facilitating our efforts to assist the world.





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14

LIFE BELOW WATER

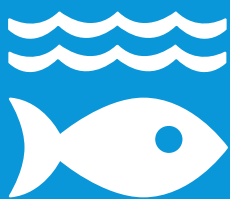


Conservation and sustainable
utilization



Maintain ecosystems and
their biodiversity





Conservation and sustainable utilization

The Student Club of the Faculty of Science and Technology, Nakhon Si Thammarat Rajabhat University, organized a mangrove forest conservation activity with the following objectives:

1. To allow students to participate in caring for nature and the environment.
2. To instill awareness of natural resource conservation and unity among students.
3. To conserve natural resources and the mangrove environment.
4. To conserve breeding grounds and habitats for aquatic animals.



Maintain ecosystems and their biodiversity

The research project conducted site visits involving honey tasting, boating, observing hanging firewood, and honey soap production as part of the experiential tourism initiative named "Phung Pha." This initiative aims to promote tourism for the benefit of the coastal community in Village No. 4, Pak Phun Subdistrict, on February 29, 2024, and will also include the presentation of research findings at the NSTRU Research and Innovation open house on February 12-13, 2024.





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15 LIFE ON LAND



Educational programs on
ecosystems



Sustainable management of
land for agriculture



Educational programs on ecosystems Sustainable management of land for agriculture

The university has consistently executed plant genetic conservation initiatives. Her Royal Highness Princess Maha Chakri Sirindhorn established the Plant Genetic Conservation Project to promote comprehension and awareness of the significance of diverse resources in Thailand. The project has initiated efforts to promote collaborative thinking and practices that benefit the Thai populace, as well as to create a resource information system for extensive national dissemination. The initiative encompasses activities aimed at safeguarding resources in natural forest regions, surveying and collecting resources at risk of extinction due to environmental changes, relocating collected resources to cultivate and preserve them in suitable and secure areas, conserving and utilizing resources, researching and assessing resources to understand the components, properties, and applications of plants, and developing a computer-based resource information system.





Nakhon Si Thammarat
Rajabhat University



16

PEACH, JUSTICE AND STRONG INSTITUTIONS



Students' union



Provide expert advice to
government



Students' union



Student organizations at the university serve as representatives and advocates for students' interests. These organizations also work together to support academic rights, welfare, and the quality of education. Additionally, they organize events or activities to encourage student participation throughout the university, as well as democratic decision-making processes and peaceful campaigns.



Provide expert advice to government

The university has signed MOUs with local administrative organizations to collaborate in community development, aiming to elevate the quality of life and local economy in 93 sub-districts in Nakhon Si Thammarat, Trang, and Krabi provinces. This collaboration involves leveraging the knowledge, technology, and innovations of the university and various organizations to drive both production and service sectors at the local level to achieve economic recovery of civil society





Nakhon Si Thammarat
Rajabhat University

17

PARTNERSHIPS FOR THE GOALS



International collaboration
data gathering for SDG



Collaboration for SDG best
practice



Collaboration with NGOs for
SDGs



Sustainability Literacy



International Conference on Multi-function
Materials and Applications
(ICMMA 2022)





International collaboration data gathering for SDG

The university has established a cooperation network with domestic and international organizations to elevate the operation in all missions to the international level. A Memorandum of Understanding has been signed with international organizations, including the Memorandum of Understanding between the Network of Rajabhat Universities and National Pingtung University, China; the Memorandum of Understanding between Nakhon Si Thammarat Rajabhat University, Thailand, and Gunma University, Japan; and the Memorandum of Understanding between Chengdu University, China, and Nakhon Si Thammarat Rajabhat University, Thailand. The said Memorandum of Understanding includes (1) student exchange activities; (2) faculty, administrative staff, and researchers exchange activities; (3) research papers, publications, and related information; (4) arts and culture activities; and (5) joint research activities and other joint educational activities. These collaborations lead to international cooperation for sustainable development.



Collaboration for SDG best practice

Due to SDG 17.2.4 specifically underscoring the importance of research and collaboration to identify and disseminate best practices across different countries and regions. Nakhon Si Thammarat Rajabhat University has been working towards SDG 17.2.4 in international collaboration and research with various university in various countries including Hanseo University (Korea), Korea Institute of Geoscience and Mineral Resources (Korea), Anhui Jianzhu University (China), Anhui University of Science and Technology (China), Suzhou University of Science and Technology (China), Hefei University (China), Suzhou University (China), Ho Chi Minh City University of Technology (Vietnam), Universitas Islam Indonesia (Indonesia), Central University of Gujarat, (India), Malaya University (Malaysia), King Mongkut's Institute of Technology Ladkrabang, (Thailand), and Khon Kaen University (Thailand). During the meeting, we talk about how crucial research and teamwork are to achieving SDG objectives. As a result, we have started using conferences to spread the word, including the 17th International Conference on Multi-functional Materials and Applications at Anhui Jianzhu University, China (November 24–25th, 2023) and the 5th International Conference on Chemistry, Chemical Process, and Engineering. The theme of this conference is Chemistry for Sustainable Development: Achieving SDGs through Innovations and Collaborations. This event will be scheduled for August 14th, 2024, in Yogyakarta, Indonesia. Following these occasions, Nakhon Si Thammarat Rajabhat University has been pursuing SDG 17.2.4 in international cooperation and research through a range of initiatives, including student and lecture exchanges and the publication of research articles that promote the SDGs.





Collaboration with NGOs for SDGs

The Thanyarak Foundation, founded under the royal benevolence of Her Royal Highness Princess Srinagarindra. The foundation's mission is to empower Thai women in the fight against breast cancer. In the academic year 2023, the Thanyarak Club of Rajabhat University campaigned for Thai women to learn how to properly self-examine their breasts and to observe changes regularly. The goal is to mitigate the risk of illness and lower the mortality rate from breast cancer by utilizing the communication campaign activities of students from the Thanyarak Club, which involve providing knowledge to communities within the service area. The activities carried out by the students received the first runner-up award in the "Continuing and Expanding the Mission to Conquer Breast Cancer" project competition. The students in the team consist of Ms. Chudamas Luangprab, Ms. Manatsanan Chamnankit, Ms. Natchaya Numnuan, Ms. Phassorn Thongkhaopuek, and Ms. Phonsiriwan Lateh. The club advisors are Ms. Sita Ritthatham, Ms. Hathairat Talyarak, Ms. Thannalin Krainara, and Ms. Saowalak Satcha-awut.





Sustainability Literacy

To evaluate students' ability to learn and retain key sustainability concepts, I use a mix of assessments that focus on both understanding and application. Formative assessments like quizzes and discussions provide real-time insights into comprehension, allowing for adjustments as needed. Project-Based Learning (PBL) tasks, such as designing sustainable solutions for local issues, demonstrate students' practical grasp of concepts. Case studies and reflection journals encourage deeper processing, as students connect theory with real-world issues. Capstone projects and cumulative exams help assess long-term retention and synthesis of knowledge. Finally, peer and self-assessments promote metacognitive awareness, as students reflect on their learning journey. This blend of methods ensures a comprehensive view of their learning and retention of key sustainability principles.

Evaluating students' ability to learn and retain key sustainability concepts requires a combination of assessment strategies that reflect both understanding and application. Here are some effective approaches:

1. Formative Assessments: As fundamental sustainability concepts are presented, students' understanding of them is gauged through frequent, low-stakes tests such as quizzes, reflections, and conversations. By using these tests, teachers can address any understanding gaps and modify their lectures in response to immediate feedback.

2. Project-Based Learning (PBL): Students learn sustainability ideas most effectively when they are able to apply them to actual situations. Students learn ideas and gain practical experience by working on projects like creating sustainable solutions for neighborhood problems or performing environmental impact assessments. Students' level of internalization of the subject is demonstrated by evaluating these projects using standards such as inventiveness, viability, and comprehension of sustainable principles.

3. Case Studies and Critical Analysis: Students are encouraged to examine and debate intricate real-world situations by using case studies that illustrate sustainability issues. Teachers can determine how effectively students have retained important topics by evaluating their critical thinking abilities and their capacity to draw connections between theory and practice.

4. Reflection Journals: Students are better able to process knowledge when they are encouraged to keep journals in which they consider what they have learned about sustainability. Teachers might gain insight into students' changing viewpoints and their understanding of the long-term effects of sustainability issues by reviewing these journals.

5. Capstone or Cumulative Assessments: Capstone projects or cumulative tests that ask students to synthesize and apply what they have learned are very successful at assessing retention over time. These evaluations could take the form of portfolios, reports, or presentations that highlight students' thorough comprehension and capacity to remember important ideas over the course of a term or year.

6. Peer and Self-Assessment: Group projects are frequently a part of sustainability education. Integrating peer and self-assessment allows students to evaluate their own learning and analyze their level of comprehension in comparison to their peers. As students actively assess their own comprehension, this metacognitive method improves retention.

Combining these approaches offers a comprehensive understanding of how students learn and retain sustainability concepts, promoting both knowledge acquisition and the capacity to use that information in significant ways.



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