



RAMBHAJ BARNI RAJABHAT UNIVERSITY

SUSTAINABILITY REPORT 2021-2022





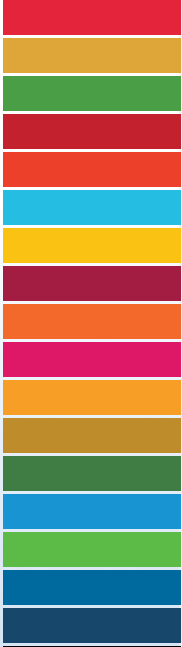


Table of Contents

Message From the President	A
SDG 1 No Poverty	1-2
SDG 2 Zero Hunger	3-4
SDG 3 Good Health and Well-being	5-6
SDG 4 Quality Education	7-8
SDG 14 Life below Water	9-10
SDG 15 Life on Land	11-12
SDG 16 Peace, Justice and Strong Institutions	13-14
SDG 17 Partnerships for the Goals	15-16
Reference & Contributors	17-18

Message From the President

Rambhai Barni Rajabhat University (RBRU) continuously gives precedence to tasks that are related to Sustainable Development Goals (SDGs) and we follow the philosophy of comprehensive community development through higher education. In addition, our SDGs are related to the university's vision of "Wisdom of the East leads to internationalization". In 2022, the university built upon that vision as well as eliminating all kinds of poverty in the nearby communities. The university also has several projects on food security, the enhancement of nutrition quality, the promotion of local agriculture and the development of quality of health for people of all ages. Moreover, RBRU also works on equality in education and gives importance to the concept of lifelong learning. Furthermore, we have several projects on the sustainable use of water and water resources, conservation management and the dissemination of environmental awareness concerning the protection and sustainable use of land ecosystems. RBRU also has a policy to support everybody in our surrounding communities in gaining access to justice effectively and equally. The university intends to collaborate with all local sectors in the development of their own sustainable development goals as much as possible.

In the coming years, Rambhai Barni Rajabhat University aims to work in line with Sustainable Development Goals to enhance sustainability in every aspect of local development. These goals will relate to the university's academic services mission regarding the transfer of technology to local communities; the creation and development of teacher education following professional standards; the advancement of quality in education to meet 21st century requirements; the development of graduates to respond to social needs; and the creation of wisdom and international innovation to solve and enhance our quality of life. These goals must be based on good governance at all levels which is flexible, transparent and continuously adapts to the requirements of a truly sustainable vision.



Waigoon Tongaram, Asst. Prof.
President



R
B
R
U



1 NO
POVERTY

Goal 1 :

No
Poverty

“

Poverty is a problem for the development of both the economy and society. Since there are long term effects on all of humanity, solving the problem of poverty is important for the development of the country. Poverty does not just mean a lack of income but also both resources and knowledge of how to live. The problem of poverty is vital for the development the country. This makes it a national priority to end poverty. In addition, importance must be given to building immunity for the poor in the establishment of this project. It is therefore important to implement a variety of policies and development plans.

The objectives under Goal 1: Eliminating Poverty are as follows: Research studies into ending poverty.

Rambhai Barni Rajabhat University Research studies are promoted from both internal and external research funding sources that focus on research issues for investigation and development of innovations to solve problems or the strengthening of society, community and stability. These initiatives support research funds for issues concerning improving the quality of life, welfare, labour and poverty eradication. Reduce inequality and human security.

”

Policy

Target to admit students who fall into the bottom 20% of household income x 2 groups by providing loans for study through the Facebook page “[กยศ.rbru](#)”, such as the Annual Scholarship, Credit Union Scholarship, Scholarship for Students and a Scholarship for the Disabled. Moreover, a scholarship from Her Royal Highness Princess Maha Chakri Sirindhorn provides scholarships to foreign students from Cambodia. University service in scholarship to those students who fall into the lower tier of household income by giving news and information of the recruitment. In addition, there are student loans for students who are disabled.



Picture 1 : Goal 1 RBRU's scholarship students at the scholarship ceremony receiving grants from Phra Boran Phithak fund

The university is also helping students affected by the Corona virus Disease 2019 (COVID-19) by organizing various activities and projects to help students and staff of the university,

such as increasing the capacity of teachers to support online teaching and learning Tuition fee reduction of 50% in the first semester of the academic year 2021.

Field hospital services, mobile controlled transport vehicles and consumer goods to help patients, etc. The university also supports the welfare for students from low-income families, such as vaccination against COVID-19, accommodation, counselling and hygiene.

Study

The university also supports welfare for students from low-income families by setting up the weekly science fair project which allows for the cultivation and realization of entrepreneurs. This provides students with start-up income between their studies and taking the initiative to proceed in creating a new business. The development of new entrepreneurs for the future. Supporting students on low-incomes to successfully carry out their studies: this is an important mission.



Picture 2 : Goal 1 RBRU initiatives to assist the students who fall into the bottom of the household income group by providing the project "Weekly Academic and Science Fair" raising and cultivating an entrepreneurial spirit with this project.

The university set up and trained staff teams to provide advice and consultation in registering for study plans, and starting the first year to the fourth year for complete their studies for each course. Moreover, the university set up the details of students completed in 2021 together with details of charts to show the proportion of scholarship students in 2021 for use in management for the following year.

Contribution to end poverty

The university set up the Business Start-up Unit to support the community to support the start of sustainable businesses through the Business Start-up Unit and produces cosmetics, support the students' staff, alumni students, and local people. This support focuses on the application of this knowledge and resources to develop the commercial business sector

for new entrepreneurs, and to strengthen the development of new entrepreneurs in the future. Furthermore, this creates knowledge and provides research findings to help applicants join the Business Start-up Unit to create new business operators. This is developed through the setting up of new companies through support and strengthening of businesses in the future.

The university cooperates with the Government Savings Bank, implementing the Yuwaphat Rak Thin Project to encourage students to learn and apply modern technology to develop quality products or community services. It has added value and meets market demands, as well as creating experiences for learning about work processes and exchanging knowledge with the community. This is to control and prevent low quality durian (early immature durian) before sale in the market in the community areas of Chanthaburi, Rayong and Trat.



Picture 2 : Goal 1 RBRU set up a clinic to test for the early immature durian with technology to control and prevent low-quality durian (early immature durian) before selling in the market in the community areas of Chanthaburi, Rayong, and Trat.

There are also community product development projects to improve the quality of life of people in areas affected by wild elephants. This is achieved by collaborating with Khao Chamao District, Rayong Province, to develop new products, packaging and distribution processes in order to create additional jobs and increase income for people affected by wild elephants.



Picture 3 : Goal 1 RBRU set up a project on developing the community's local products for improving the quality of life for the locals who are affected by wild elephants, joining with Khow-cha-mow district.

2 ZERO HUNGER



Goal 2 :

Zero Hunger

“Rambhai Barni Rajabhat University is a local development university committed to supporting local farmers in enhancing agricultural products and food production in order to attain food security, enhance nutrition and advance sustainable agriculture as outlined below.”

Research on Ending Hunger

Rambhai Barni Rajabhat University supports research on ending hunger by offering a laboratory to local farmers and food producers. The university has modified its operational policies to promote sustainable agriculture. The main missions of the Eastern Agricultural Product and Food Innovation Research and Development Center are to conduct research and develop agricultural and food products. Additionally, the university has collaborated with community enterprises in running social enterprises with the ultimate goal of developing and making locally made products more attractive. Examples of original products are Fang (Sappan or *Caesalpinia Sappan* L.) Drink and Fang Jelly, as fang is a well-known medicinal plant with characteristics that can help alleviate relieve mouth ulcers, clear phlegm and nourish the blood.



Picture 1 : Goal 2 Established conception of Social Enterprises project with the community

University Policy Formulation for Attaining Food Security, Enhancing Nutrition and Advancing Sustainable Agriculture

Rambhai Barni Rajabhat University has formulated a university policy to attain food security. The university has measured the amount of food waste generated in the university campus by daily collecting data in the main cafeteria and continuously recording that data. Besides this, the university provides sustainable alternative food as well as halal certified vegetarian and vegan food to everyone in the campus. Moreover, the university provides healthy food at affordable prices for all students. Meanwhile, the students in the Faculty of Agricultural Technology have cultivated hydroponic vegetables as part of practical training in their courses and they have sold them online to other students, university staff and interested people at a below market price. Furthermore, the university has given farmers access to a university laboratory in order to support sustainable agriculture by opening a soil testing service unit at the Faculty of Agricultural Technology. The soil test report shows recommendations on the correct amount of fertilizer for each crop, or in the case of soil that needs lime, the report will also show the amount of lime that must be used.



Education System for Attaining Food Security, Enhancing Nutrition and Advancing Sustainable Agriculture

Rambhai Barni Rajabhat University has organized activities and events to assist impoverished students who may experience food insecurity by offering those students scholarships; the scholarship ceremony is held every year in the University Wai Khru Ceremony.

Social Contributions for Attaining Food Security, Enhancing Nutrition and Advancing Sustainable Agriculture

Rambhai Barni Rajabhat University helps reduce student and staff food insecurity by offering them a food bank. The university was one of the primary field hospitals in Chanthaburi Province during the COVID-19 pandemic where sufferers could receive care. The university was also set up as a quarantine facility for people who were infected with COVID-19 or who were at high risk of the disease. Those people in the quarantine facility were not allowed to leave the area which led to them facing hunger. Therefore, the university provided food for everyone who had to remain there for at least seven days.

Rambhai Barni Rajabhat University has provided local farmers and food producers access to food safety and sustainable agriculture as well as aquaculture knowledge, skills or technologies through the Integrated Sub-District Economic and Social Upgrading Project (U2T). The Faculty of Agricultural Technology has organized an online training program in the topic “Local Medicinal Plants Utilization” for farmers who already grow medicinal plants as these plants can be utilized as ingredients in a variety of traditional dishes. Additionally, medical plants can also be made as mosquito repellent sprays. This training is an example of how the university has disseminated knowledge to local farmers and surrounding communities.

The main goals of social enterprise implementation in partnership with community enterprises are to 1) buy raw materials and products from local people; 2) develop local products to be more attractive; and 3) research marketing channels for selling products that have been developed to foster occupational

and community sustainability.

This implementation puts the first priority on trading community products in order to enhance community livelihoods and generate sustainable income along with solving social and environmental issues.



Picture 2 : Goal 2

Prototype products launched by Social Enterprises project



Picture 3 : Goal 2

Site visiting collaboration with Thai Beverage Public Company Limited for Social Enterprises project strength

3 GOOD HEALTH
AND WELL-BEING

Goal 3 :

Good Health and Well-being

“ Rambhai Barni Rajabhat University focuses on ensuring healthy lives and promoting well-being for all ages. The university encourages the conduct of research and establishing policies regarding good health and well-being. The university also supports education and collaboration regarding good health and well-being as detailed below. ”

Research regarding good health and well-being

The university promotes the conduct of research to develop knowledge, and encourage, protect and ensure good health and well-being for all ages. This also includes the disadvantaged, the vulnerable and migrant workers. Research was also conducted in order to study the effects of psychosocial support provided by midwives and families on preventing postpartum depression among first-time adolescent mothers at the 3-month follow-up. In addition, other research was carried out to study the improvement of health literacy using the Health Education and Health Empowerment Program in Thai adults with uncontrolled hypertension in Chanthaburi Province, Thailand.



Picture 1 : Goal 3

Dr. Nattaphat Janchai conducted a study into the improvement of health literacy using the Health Education and Health Empowerment Program in Thai adults with uncontrolled hypertension in Tha Chang, Chanthaburi Province.

Policies regarding good health and well-being

There are policies to ensure the good health and well-being of students and staff at Rambhai Barni Rajabhat University as well as the local population. All these policies include free services for mental screening and mental health counseling, free medical services and first aid services for university personnel and students at an infirmary room managed by registered nurses and nurse lecturers from the Faculty of Nursing. In addition, the university adopted a policy for preventive measures during the COVID-19 pandemic. For example, the university offered free COVID-19 vaccinations for students and staff during the outbreak. There was a screening process to assess the risks of COVID-19 virus transmission using Antigen Test Kits (ATKs) before doing any kind of activities in the campus.



Picture 2 : Goal 3

The university offered free COVID-19 vaccinations for students of the Satit School of Rambhai Barni Rajabhat University and other schools in Chanthaburi Province.

In addition, the university is aware of the dangers of tobacco that can affect ones' health and well-being. Smoking directly affects students' learning potential. In particular, the university aims to fulfill its policy of a smoke-free campus: the president of Rambhai Barni Rajabhat University introduced the Smoking Policy Declaration in 2021, as it is against the law to smoke in the university campus.

Study regarding good health and well-being

At Rambhai Barni Rajabhat University, the Bachelor's Degree in Nursing Science produces qualified nursing students to support the shortage of registered nurses: this also builds the National Health Security for the locality and for the country. Furthermore, there is knowledge sharing in good health and well-being provided to students, the university staff and to the general population. The 'Friend Corner' center shares knowledge regarding sexual and reproductive health-care education to students: for example, information about sexual education; the prevention of sexually transmitted diseases; and unplanned pregnancies and family planning. Moreover, practical training is provided to share knowledge and skills in cardiopulmonary resuscitation (CPR), as well as methods to prevent oneself from the COVID-19 pandemic to students in the university. Likewise, the Faculty of Nursing held projects to promote good health of the elderly in the community, such as healthy food for the elderly, exercise, falling prevention and COVID-19 prevention for the elderly. Similarly, the university promotes the knowledge sharing of good health and well-being among school students, namely the necessary steps in hand washing, toothbrushing, hygiene care and student's prevention of COVID-19.

Picture 3 : Goal 3

Nursing lecturers and students from the Faculty of Nursing carried out home visit to share knowledge regarding good health and well-being for people in the community.



Collaborations regarding good health and well-being

There are projects to promote and share knowledge in good health and well-being at Rambhai Barni Rajabhat University. These collaborations were coordinated with the Sub-District Health Promoting Hospital, the Subdistrict Administrative Organization (SAO) and the Elderly School by holding varieties of good health and well-being projects. For instance, the project named 'H4QOL for the Elderly' was created to promote the quality of life of the elderly which covered four aspects: 1) Head - elderly brain development activities; 2) Heart - activities promoting love and warmth in the family and community; 3) Hand - herbal product development activities in villages; and 4) Health - elderly health awareness promotion activities.

Additionally, during the COVID-19 pandemic, the university collaborated with Chanthaburi Provincial Public Health Office, Prapokklao Hospital, the Provincial Administrative Organization (PAO) and Tha Chang Town Municipality to establish a field hospital in the university campus for local quarantine. Besides this, the university campus has also been used as a COVID-19 vaccination center in order to prevent, control and manage the epidemic.



Picture 4 : Goal 3

The University President offered the use of a building in the university campus to the provincial governor as a local hospital and quarantine center during the COVID-19 pandemic.

4 QUALITY
EDUCATION

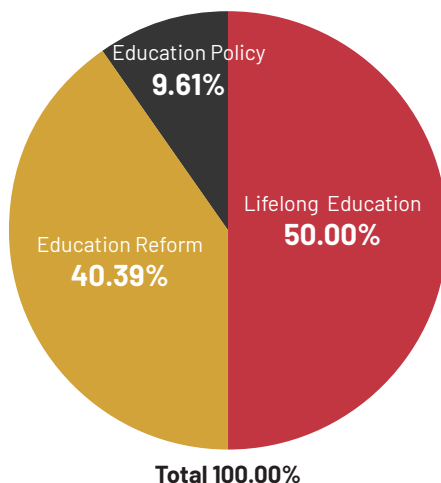
Goal 4 :

Quality Education

“ *Rambhai Barni Rajabhat University is a higher education institute for local development that focuses on the enhancement of the quality of education with the mission to provide research into the improvement of the quality of education; the definition of learning access policies; education management that takes into account the accessibility of local youth to education; and comprehensive participation to promote lifelong learning for people of all ages. Further details are outlined below.* **”**

Research to Improve the Quality of Education

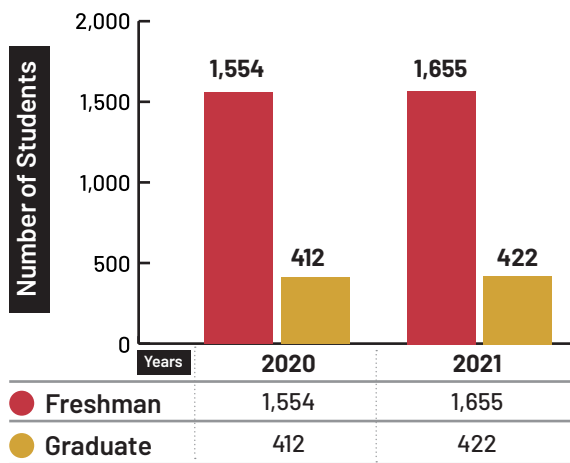
By promoting research by receiving support from internal and external funding sources to develop educational research and disseminate knowledge from research to the public, this enables participants to apply this knowledge to improve the quality of education. In the academic year 2021, the university produced 52 research papers related to educational quality improvement published in the TCI database, which consisted of 26 papers about lifelong education (50.00%), 21 papers into education reform (40.39%), and 5 papers concerning education policy (9.61%).



Formulation of a Learning Access Policy that Responded to Educational Management for People and Aimed at Expanding Opportunities for Teachers' Preparation and Development to All Levels of Educational Management

By taking into account differences in race, religion, physical disability, gender and immigrant status, the university has also recognized an education policy that allows people with disabilities to study with normal students. It also has educational policies that support foreign students to be able to study with Thai students. Moreover, special fees are waived for international students under the MOU program with the university.

In the academic year 2021, there were 1,655 graduates of all degrees. The 422 graduates had teacher professional qualifications (400 undergraduates and 22 graduates). In fact, it was the same proportion as the previous performance in the academic year 2020, in which there were 1,554 graduates of all degrees; 412 graduates had teacher professional qualifications (378 undergraduates and 34 graduates).



Education that Takes into Account the Accessibility of Local Youth to Education

By taking into account equal opportunities for further study, the university setting reasonable and fair tuition rates, and granting scholarships to students who lack funds. In the academic year 2021, the university opened up 54 courses in various fields, where local youth was able to choose to study according to their needs. All courses passed the educational standards and the standards of the Federation of Professions. There were 1,655 students enrolling for all courses, comprising 1,398 undergraduates (regular program), 226 undergraduates (special program), and 31 postgraduates. 1,268 students were the first members of their family to attend university.

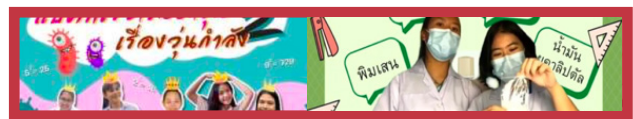
Engagement to Promote Lifelong Learning for People of All Ages

The university has been working on promoting lifelong learning for people of all ages. In the academic year 2021, the following actions were undertaken: 1) Integrating with graduate preparation, supporting learning services to third parties of all ages, and providing opportunities for local people to access learning resources that were open to public areas such as libraries, technology, places and online resources. Additionally, there were free training courses for those who were not studying in the university system by applying through the university's website at <https://mooc.rbru.ac.th>; 2) Providing activities to support the learning of basic education students free of charge.



Picture 1 : Goal 4 Free online resources: <https://mooc.rbru.ac.th> (left) and online reference database (right)

Two projects have been implemented as follows: the 154th Conservative Mathematics Camp Project and the Science Lab Project for Craftsmen by 64 Chemistry RBRU; 3) The university had a provision of vocational training and lifelong learning activities which organized 2 events that were open to the public and free of charge.



Picture 2 : Goal 4 The 154th Conservative Mathematic Camp Project (left) and The Science Lab Project for Craftsmen by 64 Chemistry RBRU (right)

There were two projects for the development of the professional competency of teachers and educational personnel. For example, the workshop project developing professional competence and new skills, and the project of desirable characteristics according to the 4 educational policies (Up-Skills) for elementary school teachers.

There was also the activity to develop necessary professional skills, including a workshop on the use of computational science to promote creativity (Introductory Course), and 4) The academic services outside the university were established for the application of academic knowledge to develop and solve community problems according to needs and necessities.

There were two projects to solve problems and improve the quality of people's lives in the community. These two projects were the Weir Project, Community Costs with the Power of Volunteers (GEN A) and the Government Savings Bank Yuwaphak Rak Thin Project.



Picture 3 : Goal 4 The Weir Project, Community Costs with the Power of Volunteers (GEN A) (left) and The Government Savings Bank Yuwaphak Rak Thin Project (right)

As shown above, Rambhai Barni Rajabhat University accomplished quality education that responded to the achievement of sustainable development goals.



Goal 14 :

Life Below water

Rambhai Barni Rajabhat University has been continually providing educational programs/activities/projects for local communities in maintaining aquatic ecosystems for both free and paid. For example, the university provided a free academic service for the local community for free about agricultural water management using IoT technology. Moreover, the university ran an educational project for the local community to raise awareness of the environment based on the GLOBE program. The project aimed to educate teachers and students about ecosystems including soil, water, living things and land covers.

To support sustainable fisheries, the university organized an academic service project known as “the knowledge management for strengthening integration of the Blue Swimming Crab Banks and the economy and society of coastal communities in Trat and Rayong Provinces”. Moreover, the university has enhanced the Blue Swimming Crab Banks as learning centers for educating people about community fishing management and marine resources conservation, especially the Blue Swimming Crabs, and also related activities to sustainably water tourism.

The project “the knowledge management for strengthening integration of the Blue Swimming Crab Banks and the economy and society of coastal communities in Trat and Rayong Provinces” also supports overfishing. The project was launched for educating people in local communities on managing fishery resources efficiently, including Blue Swimming Crabs and others related in the east of Thailand. It aimed to rehabilitate various kinds of fishery resources and to prevent overfishing by integrating fishing jobs and other alternative jobs such as tourism and product processing. To support this, the university organized the academic service project to educate people about sustainable fishing.

Rambhai Barni Rajabhat University organized events aimed to promote conservation and sustainable utilization of the seas and marine resources. For example, the university collaborated and signed a Memorandum of Understanding (MOU) with the local community, Vinythai Public Company Limited, to maintain and conserve marine resources, especially corals. The university has also continued working on the coral rehabilitation project in the areas of Ko Kut and Ko Mak. In fiscal year 2021, due to the aim of this project, learning centers were established in Ko Kut and Ko Mak in Ko Kut district in Trat Province. Rambhai Barni Rajabhat University, in collaboration with our network partners, rehabilitated corals in the areas destroyed from tourism development. The results of the coral rehabilitation project showed that there are 60 plots in Ko Kut and 150 plots in Ko Mak. These can generate more income for the local economy of the communities between 1,000 – 2,000 baht per day from coral scuba diving and coral planting activities which are creative



Picture 1 : Goal 14

An academic service project known as “the knowledge management for strengthening integration of the Blue Swimming Crab Banks and the economy and society of coastal communities in Trat and Rayong Provinces”

tourism activities. In addition, the university organized a course which aimed to educate young people on stag horn coral rehabilitation in Ko Kut and Ko Mak in Trat Province. Due to those successful work, the networks of Natural Resources and Environmental Protection Volunteer (NEV) in Ko Kut received a star award from Ministry of Natural Resources and Environment in 2021.

For using raw materials from environmentally friendly production processes to cook in the university established the Sufficiency Economy Learning Center in 2020. At the center, there is a demonstration of processing food from aquatic animals that come from environmentally friendly aquatic ecosystems. In addition, raw materials produced are brought to cook for people in the university. To do this, the university still has the policy to support the center's operation continually and provides the budget for operating the center according to the mission every fiscal year.

Moreover, the Department of Aquaculture in the Faculty of Agricultural Technology, provides the subject of economic aquaculture for students. The contents in the curriculum provides the practice of environmentally friendly keeping and breeding aquatic animals in the farm of the university for the students. The students can harvest some aquatic animals from the sustainable farm they operate for consuming and selling to people in the university continually.

For monitoring the health of aquatic ecosystems, our staff continuously research, collect data, and publish research papers related to monitoring and maintaining ecosystems and their biodiversity. For example, there was a research project of determination of some heavy metals in economical bivalve in Chanthaburi Province. The research aimed to monitor and check the health of aquatic ecosystems from bivalve collected from different locations. The research was published in the journal of Science and Technology, Mahasarakham University. The university also collaborated with Nong Bua Sub-district Administration Organization in Chanthaburi in surveying aquatic animals and plant species in the mangrove botanical garden Rama IX to study and collect data on biodiversity in plants and animals in the mangrove forests around the eastern coast of Thailand.

For the development of technologies to prevent damage to aquatic ecosystems,

the university has published research related to those technologies. For example, there was a research project of a comparison of urban expansion influenced by the Eastern Seaboard Development Program by using geoinformatics and satellite imagery published in the 13th National Conference on Information Technology (NCIT2021). The university also worked in collaboration with a community in running the check dam construction activity for agriculture and to help prevent damage to aquatic ecosystems.

In 2016, the university set the policies about environment, green university, and green office. They were set to promote, support, and campaign about sorting of waste materials, including activities for people to raise their awareness about environmental protection. The university has a plan to minimize changes in aquatic ecosystems by setting the policy of good environment, health and sanitation, and safety and making the 5-year green university development plan for 2017 - 2021. In 2018, the university improved announcements and policies to make sure that they covered more about environmental management. The university has a policy on wastewater treatment and water recycling and also a policy on reducing activities that cause increasing waste.

Moreover, the university has a policy to encourage students to volunteer to do the activities of preventing and reducing marine pollution. In addition, there are various types of research related to the surveys of marine resources and biodiversity published continuously in journals. The university also has implemented the master plan of Plant Genetic Conservation Project under the Royal Initiation of Her Royal Highness Princess Maha Chakri Sirindhorn (RSPG) to set a plan on resources management for conservation and utilization of marine resources such as crabs, corals and local fishes.



Picture 2 : Goal 14
The coral rehabilitation project

15 LIFE
ON LANDGoal 15 :
Life
on Land

“Protect, restore and promote sustainable use of terrestrial ecosystem, sustainably manage forests, combat desertification and halt and reverse land degradation and halt biodiversity loss”

Supporting land ecosystems
through education

Rambhai Barni Rajabhat University has organized events to promote conservation and sustainable utilization of the land, including forests and wild land by having a master plan which includes the Plant Genetic Conservation Project to conserve protected forest areas, standardized soil testing laboratory, and Sunn Hemp Plantation Project to improve soil properties. The university also supported the following land, plants, and animals research studies: Ecotourism Thailand Project and the first strategy-based project, the Intrusion Detection System on Farmland Using LoRaWan Network Project.



Picture 1 : Goal 15
The Rambhai Barni
Rajabhat University
model scheme
for the Plant
Conservation Project

Supporting land ecosystems
through action by participation

Rambhai Barni Rajabhat University, led by the president has a policy to promote the conservation, protection, preservation, and restoration of natural resources and ecology for sustainable use. In addition to this, we have applied a master plan to set an annual plan for developing the local biodiversity by establishing a sufficiency economy learning center in the local community, organizing a natural science museum as a collection of biological specimens, and applying local wisdom for preservation and exhibition display for visitors. Moreover, the university has worked in partnership with local communities for the conservation and mutual benefits of terrestrial ecosystems. The development strategy-based projects include collaboration on surveys and the creation of a community resource database related to protected forests in the community.



Picture 2 : Goal 15

The collaborative project with local communities to survey, collect, and create the local resource database preserving natural resources and biological diversity in forest systems

Maintain and extend current ecosystems' biodiversity (Research)

The university research teams are led by proficient lecturers conducting biodiversity-based research studies both in biological and microbiological fields, plant tissue culture, and ecological studies. The projects are as follows: Biology and Orchid Conservation Workshop for Orchid Storyteller Creation in Khao Khitchakut National Park, In Vitro Germplasm Conservation of Dendrobium cretaceum Lindl. in Aseptic Condition Project, Community Participation Based Firefly Conservation Project for Ecotourism Management in the mangrove Forest of Welu River Basin in Khlung District, Chanthaburi Province, and the study of genetic diversity and collection of plant propagation and mushroom development plan in conserved forests.



Picture 3 : Goal 15

The biological diversity research studies relating to plants, animals, and microbes in forest systems, such as the research studies of orchids and fireflies as well as the mushroom cultivation project and survey in the protected forests

Policy in water discharge guidelines and standards, plastic waste reduction, and hazardous waste disposal

The research study on water treatment in local canals and soil and water quality testing in Seung Sub-district was conducted by the university which has a policy to set up a budget for maintaining a laboratory for chemical waste disposal with STDB standards (Science and Technology Databank). The university green office policy also outlines the standardized wastewater disposal management from buildings to prevent pollution affecting ecology, wildlife, human health, and welfare. The green office policy and handbook were completed according to the university policy on plastic waste reduction on campus. Moreover, the university has a policy to process, and practice waste material sorting and hazardous waste disposal such as the green office policy and electronic waste collection and disposal points on campus.



Picture 4 : Goal 15

The projects to examine the quality of water and soil in Seung Sub-district, Chanthaburi Province, and the Rambhai Barni Rajabhat University



Picture 5 : Goal 15

Green office policy for the waste bank project

16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS

Goal 16 :

Peace, Justice and Strong Institutions

“

Rambhai Barni Rajabhat University focuses on promoting legal education and producing professional lawyers who are competent in change literacy. The university also aims to build stability and equality at the governmental, provincial and local levels, creates a neutral forum as well as conducts quality research to create an effective law enforcement complying to operational policies, administration and governance principles.

”

1. Promoting Education to Become Professional Lawyers and Knowledgeable about Changes

The Faculty of Law, Rambhai Barni Rajabhat University has set strategies of improving the quality of education, that is, enhancing academic excellence research, innovation and obtaining academic and professional standards from relevant organizations. Developing the quality of teachers to become professional, quality graduates with knowledge who are morally brave, adhere to ethics in the legal profession, are aware of changes to create development, adding value to oneself and society as well as promoting and supporting students to participate in creating innovations, building a Moot Court and the library of the Faculty of Law including collaboration with the Office of the Constitutional Court.

2. Participation in Creating Stability and Equality at Government, Provincial and Local Levels and Creating a Neutral Forum. There are 4 Aspects as follows:

2.1 Working together with the Government in Various Dimensions as follows:

1) Creation of Agricultural Product Innovation Research and Development Center for Eastern Food” provided academic services to both government agencies and the public sector

in 4 missions, namely: 1) testing agricultural and food products according to ISO/IEC 1702 standards, 2) research and development of agricultural and food products, 3) supporting teaching, academic services and being a coach and consulting, and 4) prototype food processing factories, operating international food quality assurance systems.



Picture 2 : Goal 16 Research Development and Innovation Center for Agricultural Products and Eastern Food

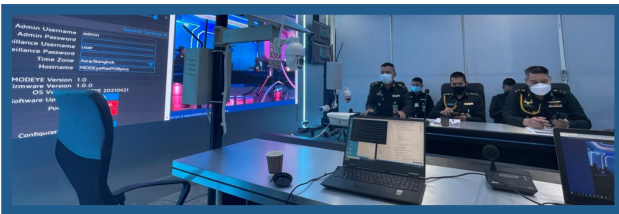
2) Counseling and Academic Services under the Project “AI YARA: A System to Detect and Alert of Encroachment of Elephants in agricultural areas.” Rambhai Barni Rajabhat University has created academic services to assist the villagers using artificial intelligence technology. They help to analyze images from cameras installed in areas where elephants pass and proceed to alert the villager leading to pushing the elephants before causing further damage.



Picture 1 : Goal 16 Detection and Notification System for Encroachment of Wild Elephants in Agricultural Areas

3) Counseling and Academic Services under the Project “SafeChan: Travel Recording System in Chanthaburi Province” The Faculty of Computer Science and Information Technology, Rambhai Barni Rajabhat University has created a system to record travelling in and out of Chanthaburi Province or “SafeChan”, which was developed to screen and track travelers from risk areas.

4) The project for “Study of the High-level Security Closed Circuit Television System Innovation.” The Faculty of Computer Science and Information Technology, Rambhai Barni Rajabhat University signed an appointment of consultation agreement with the Directorate-General, Defence Information and Space Technology Department, Office of the Permanent Secretary for Defence to create the project of information and communication technology advice to the working group. Its goals are to support internal security missions and to maintain peace and order in the country as well as surveillance in an area of responsibility, especially in Thailand’s southernmost three provinces of Thailand.



Picture 3 : Goal 16 Consulting meeting and instruction for using high-level security closed circuit television system innovation. Its goal is to support security missions and maintain order within the country.

2.2 The Faculty of Law Works with Research Cooperation Networks

The Faculty of Law works with Takad Ngao Community, Marine Fisheries and Marine Department Chanthaburi Province to organize academic service activities with the Faculty and related agencies. There was a meeting to discuss research problems. After completing, the research has applied the knowledge gained from research. There was a follow-up and evaluation of research utilization and satisfaction of people in the community,

by taking the results from the research to be useful to solve concrete problems with the target group.

2.3 Organizing Community Forum for Discussion of the Problems and Needs of Communities Affected by Wild Elephants

The university in collaboration with the Chanthaburi Provincial Police organized a community forum to reflect on the problems and needs raised by people who have been affected by the wild elephant problems in Chanthaburi province. Local government agencies and representatives attended the forum. The conclusion of the forum was to provide benefits and welfare to those affected, as well as to support the continuing work of the volunteers.

2.4 Promoting Roles of the University for Peaceful and Inclusive Sustainable Development

Rambhai Barni Rajabhat University has continuously worked to build an institution that is efficient, socially responsible, and inclusive to society. The university is open to public accessibility and verification and transparency and embraces participations of local stakeholders and has adopted the Integrity and Transparency Assessment (ITA) guidelines from the National Anti-Corruption Commission (Thailand) into operation to ensure the disclosure of information and access to justice for all students and staff including assessment from people outside the university.

3. Research to Create Effective Law Enforcement

Legal research in various dimensions that affect local communities, namely legal on marine waste management and conservation of coastal marine resources, intellectual property protection, problems related to bullying online or on the Internet, problems in controlling oyster cultivation and the problems of IUU Fishing affecting local fishing.

4. Creation of Operational Policies and Administration According to Good Governance Principles

The university has set a policy on improving the quality of education under the concept of Smart Local University adhering to the right thing, complying with professional ethics as well as providing public services equally. Management based on the principle of governance that is visibly transparent and responsible for the organizational society including creating participation in policy formulation and various measures from stakeholders from both inside and outside the university.

17 PARTNERSHIPS
FOR THE GOALS

Goal 17 :

Partnerships for the Goals

Collaboration with Communities through Researches

Blue Swimming Crab Bank, in collaboration with RBRU, implemented research to be a sustainable educational resource on “Knowledge Management to Strengthen Blue Swimming Crab Bank and Coastal Community Economy in Trat and Rayong Provinces” supported by the National Research Council of Thailand (NRCT) under the campaign, “Research Knowledge Management to Extend the Results of Blue Swimming Crab Bank in the Ocean in Thailand”. According to the expected results of the research, we extended the results by strengthening the Blue Swimming Crab Bank and increasing more coastal communities. Therefore, we can help supervise, follow and enhance sustainability assurance of the Blue Swimming Crab Bank. After we establish the Blue Swimming Crab Bank, we integrated it with tourism, product development, environment conservation and community sanitation in order to strengthen 25 Blue Swimming Crab Banks and communities and to enhance their capabilities.



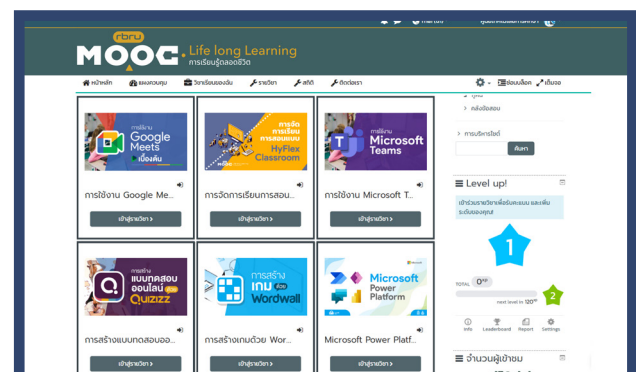
Picture 1 : Goal 17

RBRU extended the results of the research to establish the Blue Swimming Crab Bank, educated and created awareness in conserving the marine environment for sustainability to all parties involved.

Educations for SDGs

RBRU provides general education courses every semester for all students to enroll in H.M. King Bhumibol Adulyadej's Philosophy for Sustainable Development which is related to SDGs 1, 2, 3, 4, 15, 16 and 17. They study H.M. Bhumibol Adulyadej's work and the Royal Projects which helped solve the people's problems, Royal Guidance, Royal Speech and Sufficiency Economy Philosophy. They apply the knowledge from the course and do projects related to the sustainable development goals.

Moreover, RBRU provides general education courses every semester for all students which are related to SDGs such as Anti-Corruption, Volunteer with Local Development, and Maritime Zones, Marine Resources and Coastal Management. In addition, the Doctor of Philosophy Program in Interdisciplinarity of Sustainable Development provided several courses related to SDGs such as Theories of Development and Eco-social Change, Alternative Technology and Local Development, Eco-innovation and Sustainable Development, Seminar on Dissertation Proposal of Interdisciplinary for Sustainable Development. RBRU also provides many Life long learning courses for students and the public to learn by themselves at any time at no charge via <https://mooc.rbru.ac.th>

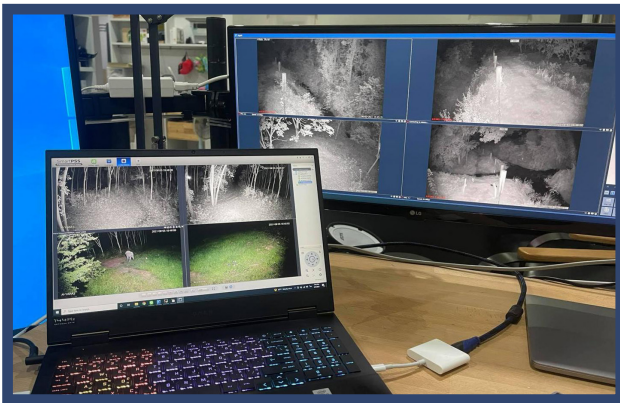


Picture 2 : Goal 17

RBRU provides many Life long learning courses for the public via <https://mooc.rbru.ac.th>

Outreach for communities

Elephant attacks has been a big problem in the Eastern region of Thailand for many years where they invade residences and farms in the area. RBRU has a collaboration with organizations including Bajasudha Kajanurak Foundation, the government sector, private sector and community leaders. Rambhai Barni Rajabhat University has developed a warning system to alert residents to the presence of wild elephants with an artificial intelligence (AI) to detect and warn local people and volunteers. The innovation was offered facilities and staff who helped install and maintain the system by Things Analytic Co. Ltd. and Triple T Broadband Public Co. Ltd. supported for the Internet access in the elephant attack area. Moreover, village chiefs and ThungKhwai Kin Club facilitated and helped an operation team who consequently have come up with an innovation called “Ai-YARA” which has been installed in 5 locations in Pawa Subdistrict, Kang Hang Maew where there are the most elephant attacks the most in the Eastern region.



Picture 3 : Goal 17

RBRU has developed an artificial intelligence (AI) and installed a warning system to alert residents to the presence of wild elephants to reduce loss of life and property in the area.

Stewardship

The government policies of the Ministry of Higher Education, Science, Research and Innovation emphasized on the enhancement of quality of life for local communities through U2T projects. All faculties and offices in the university help local communities in 15 sub-districts of Chanthaburi Province. The objectives of the projects were: to hire staff for 300 positions from local people, recent graduates, and current students to earn more money, to improve jobs offered in the area, to enhance tourism management, to circulate the income and to gather big data in the communities. All of these can lead to enhance the areas' economy and society. In addition, we present all information and knowledge in public on our website.



Picture 4 : Goal 17

RBRU organized a trade show “U2T for BCG Market” to promote local products and services as well as to demonstrate and earn more income in order to strengthen local communities.

RAMBHAI BARNI RAJABHAT UNIVERSITY

SUSTAINABILITY REPORT 2021-2022

Advisors

Waigoon Tongaram, Asst. Prof.
Songsak Mimgratok, Ph.D., Assoc. Prof.
Porphan Suttiwattana, Assoc. Prof.
Miss Kanchana Treerat
Mr. Supat Kittivongruksa

Editors

Waigoon Tongaram, Asst. Prof.
Sawatthai Sripanomthanakorn, Ph.D., Asst. Prof.
Sinat Koslanant, Ph.D., Asst. Prof.
Wayakorn Udompoch, Ph.D., Asst. Prof.
Ekachai Kitkasachroen, Ph.D., Asst. Prof.
Preeyanan Sittijinda, Ph.D., Asst. Prof.
Nakrob Tian-am, Ph.D., Asst. Prof.
Naknimit Akkasriworn, Ph.D., Assoc. Prof.
Jakrapan Wongpa, Ph.D., Asst. Prof.
Arpaporn Boonme, Ph.D., Asst. Prof.
Wannee Deoisres, Ph.D., Assoc. Prof.
Chuwong Ubalee, Ph.D., Asst. Prof.
Wiwat Petchsri, Ph.D., Asst. Prof.
Wichaladda Aunsaard, Asst. Prof.
Panya Wongtai, Asst. Prof.
Sutthinan Sothvithee, Asst. Prof.
Sutisa Chaikul, Ph.D., Asst. Prof.

Supattra Raksaprod, Ph.D., Asst. Prof.
Chutapa Kunsook, Ph.D., Asst. Prof.
Udomlak Rapeesaeng, Ph.D., Asst. Prof.
Pornchok Pechaya Usomboon, Ph.D., Asst. Prof.
Taritsawan Buasrikham, Asst. Prof.
Piyapan Meesuk, Asst. Prof.
Kantithat Karncharoen, Asst. Prof.
Piyapong Kupongpan, Ph.D., Asst. Prof.
Thirawan Sriratanachotchai, Ph.D., Lecturer
Narongrit Suksawat, Ph.D., Lecturer
Wuttinan Suporn, Lecturer
Suwicha Thaworn, Lecturer
Kanokwan Wareeket, Lecturer
Miss Kuntima Puttasad
Miss Rujira Suda
Miss Pornpimon Rattanaojanakul

Layout and Design

The Office of Academic Resources and Information Technology Team

Translators and Editors

Kanokwan Yusawai, Asst. Prof.
Proyfon Tawichai, Asst. Prof.
Auemporn Rungsiri, Lecturer
Wakun Junjajan, Lecturer
Usa Wongpaisarn, Lecturer

Natthaya Chirasukthunyakorn, Lecturer
Hathaichanok Inlop, Lecturer
Winitchaya Wongchai, Lecturer
Richard Neill Winfield Jr, Lecturer
Gareth William John Butt, Lecturer

Contributors

Puvadon Buabangplu, Ed.D., Asst. Prof., SM2
Patcharin Buayen, Ph.D., Asst. Prof.
Sandusit Brorewongtrakhul, Ph.D., Lecturer
Chuanpob laosanurak, Ph.D., Lecturer
Mr. Parinya Paradeeruchira
Mr. Pongnatee Silaart
Mrs. Aporn Jaikla
Miss Buppa Poompuenpol
Mrs. Intira Sangkheeree
Miss Ladda Cherdchomklin
Mr. Teeravut Suthiprabha
Mr. Akalak Sukhtunglok

Miss Angkana Wutti
Mr. Krit Pattanapanich
Miss Ketsarin Tana
Mr. Surat Jantong
Mr. Noppadech Youprom
Mr. Ronnapob Boonreang
Mr. Passakorn Insumang
Mrs. Jiamjit Boudthaisong
Miss Darawan Suwantha
Miss Pariyaporn Sribusara
Miss Janjira Thamprasert

Preeyanan Sittijinda, Ph.D., Asst. Prof.
Sutisa Chaikul, Ph.D., Asst. Prof.
Phikun Nuchnuanrat, Ph.D., Asst. Prof.
Watcharee Waratchareeyakul, Ph.D., Asst. Prof.
Jaruwan Mettakoonpitak, Ph.D., Asst. Prof.
Doungmanee Thongkun, Asst. Prof.
Kriangkrai Treerittitwitaya, Asst. Prof.
Panya Wongtai, Asst. Prof.
Navy Pleawjit, Asst. Prof.
Benjamas Netiworaruksa, Ph.D., Lecturer
Witawat Singsang, Ph.D., Lecturer
Napak Sangchan, Lecturer
Miss Passorn Karnjanarat
Miss Orapin Phimdee
Mr. Anekchai rasrikul

Wannee Deoisres, Ph.D., Assoc. Prof.
Wayakorn Udompoch, Ph.D., Asst. Prof.
Sasinaporn Lohitthai, Asst. Prof.
Thitavan Hongitiyanon, Ph.D., Lecturer
Kanyapat Niyomwit, Lecturer
Surisa Panthongchai, Lecturer
Mr. Panuwong Makepiboon
Mrs. Siripan Pasuhirun
Mr. Siwadon Wiriya
Miss Amara Inphung
Mr. Yotin Chapchalearn
Mr. Napong Wongchai
Mr. Anupong Kulnara
Miss Ponpat Wongsakul

Sawatchai Sripanomtanakorn, Ph.D., Asst. Prof.
Wiwat Petsri, Ph.D., Asst. Prof.
Puvadon Buabangplu, Ed.D., Asst. Prof., SM2
Yaowares Chaiyen, Ph.D., Asst. Prof.
Dechawut Wanichsan, Ph.D., Asst. Prof.
Piyapong Kupongpan, Ph.D., Asst. Prof.
Atirath Kerdthong, Asst. Prof.
Chanchalak Yiammit, Asst. Prof.
Janewit Wareebor, Ph.D., Lecturer
Konggrit Pitanon, Lecturer
Nisakorn Hounjid, Lecturer
Tarin Pintong, Lecturer
Mr. Apinan Kankeng
Miss Atchara Boongoy

Apaporn Boonmee, Ph.D., Asst. Prof.
Sontaya Koolkalya, Ph.D., Asst. Prof.
Jakkapan Potipat, Ph.D., Asst. Prof.
Kumpee Teeravech, Ph.D., Asst. Prof.
Yardrun Suwannarat, Ph.D., Asst. Prof.
Sarawut Sangsawangchote, Ph.D., Asst. Prof.
Umarin Matchakuea, Asst. Prof.
Sutthinee Mekprayoon, Ph.D., Lecturer
Nisarat Saengkae, Ph.D., Lecturer
Araya Daengroj, Lecturer
Mrs. Alisara Piromruen
Miss Runghapa Nimittrakun
Miss Jiranan Niyomna

Wichaladda Aunsaart, Asst. Prof.
Suttinun Sotewitee, Asst. Prof.
Chutapa Kunsook, Ph.D., Asst. Prof.
Chawanrat Somnuek, Ph.D., Asst. Prof.
Namonrug Khamchatra, Ph.D., Asst. Prof.
Pornpan Sukhumpinij, Ph.D., Asst. Prof.
Wikanya Prathumyot, Ph.D., Asst. Prof.
Watcharawit Rassami, Ph.D., Asst. Prof.
Lita Somboon, Ph.D., Asst. Prof.
Pornchai Luangvaree, Asst. Prof.
Kanisorn Lommetta, Asst. Prof.
Attakorn Khamchatra, Asst. Prof.
Sorasak Nakeiam, Ph.D., Lecturer
Saowapha Surawut, Ph.D., Lecturer
Poramintra Wongcharoen, Lecturer
Sasithorn Bhudharak, Lecturer
Narumon Apinansawat, Lecturer
Miss Nattaya Thawilwong
Miss Suwaree Sinlapa

Nakrob Tian-am, Ph.D., Asst. Prof.
Puvadol Damsanit, Ph.D., Lecturer
Visitsak Nueangnong, Ph.D., Lecturer
Patcharin Buayen, Ph.D., Lecturer
Sookpichaya Charrunchon, Lecturer
Chakri Bhodhimani, Lecturer
Natthakit Chaiariyamethee, Lecturer
Miss Kannika Suksamai
Mr. Kritidech Mongkolkit
Miss Nittaya Tonsai

Songsak Mimgratok, Ph.D., Assoc. Prof.
Sinat Koslanant, Ph.D., Asst. Prof.
Jakrapan Wongpa, Ph.D., Asst. Prof.
Patcharin Buayen, Ph.D., Asst. Prof.
Pattara Srisrual, Lecturer
Miss Kanchana Treerat
Miss Arisa Srichareon
Miss Kuntima Puttasad
Miss Pornpimon Rattanarojanakul
Mr. Supat Kittivongruksa



The University for Local Community Development

SMART LOCAL UNIVERSITY

Rambhai Barni Rajabhat University

41 M.5, Sukhumvit Road, Tha chang Subdistrict, Muang District, Chathaburi Province, 22000

Tel : (+66)39-319111 call 0, 10164-6

Email : saraban@rbru.ac.th