



RAMBHAI BARNI
RAJABHAT UNIVERSITY

SUSTAINABILITY REPORT

2022-2023



RAMBHAI BARNI RAJABHAT UNIVERSITY ANNIVERSARY 50th
TOWARDS SUSTAINABILITY



ลุ่มงานเขียนเขียน



Table of Contents

	Message From the President	A
SDG 1	No Poverty	1-4
SDG 2	Zero Hunger	5-8
SDG 3	Good Health and Well-being	9-10
SDG 4	Quality Education	11-14
SDG 5	Gender equality	15-18
SDG 7	Affordable and clean energy	19-22
SDG 11	Sustainable cities and communities	23-28
SDG 13	Climate action	29-30
SDG 14	Life below Water	31-34
SDG 15	Life on Land	35-38
SDG 16	Peace, Justice and Strong Institutions	39-42
SDG 17	Partnerships for the Goals	43-46
	Reference & Contributors	47-50



Message From the President

Rambhai Barni Rajabhat University (RBRU) continuously gives precedence to tasks that are related to the 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 past year, the university has achieved a Top 10 ranking in SDG 14 among universities nationwide in Thailand. This demonstrates the university's commitment to contributing to the development and promotion of sustainability of marine life. Currently, the university has further enhanced its sustainability efforts, leading to participation in the rankings for an additional 4 SDGs: SDG 5, 7, 11, and 13. This participation has resulted in the university's inclusion in the THE: Impact Rankings for a total of 12 out of the 17 SDGs this year, with the goal of achieving all 17 in the near future.

In the coming years, Rambhai Barni Rajabhat University aims to work in line with the 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. Participation in THE: Impact Rankings of RBRU is not driven by a competitive agenda against other educational institutions. Instead, it represents a collaborative effort at all levels, aligning with the government's sustainable development policy. RBRU utilizes the Sufficiency Economy Philosophy (SEP) and the BCG Model to align with the SDGs objectives, serving as a tool for this purpose. Additionally, this participation fosters self-improvement within the university, making it a true local wisdom of the East.



Waigoon Tongaram, Asst. Prof.
President



1 NO POVERTY



In the academic year 2022 there were 6,789 students at Rambhai Barni Rajabhat University

The university supported scholarships to assist financially disadvantaged students. The recruitment of students in need has been promoted through Facebook channels such as the Student Development Division's Facebook page and Student Loan website. RBRU's Facebook page, as well as through specific faculties. Advisors are also available to provide assistance and guidance for scholarship applications.



Picture 1: Goal 1 The university provides scholarships to assist economically disadvantaged students.

The university aims to admit students from the lowest-income households for further education. It provides financial aid through the Student Loan Fund and disseminates information through the Facebook page 'Student Loan.RBRU', and the new student orientation program. Additionally, the university offers scholarship support to students from the lowest income households, with announcements about scholarship applications made through various channels apart from the Student Loan Fund including scholarships for students with disabilities,

scholarships from the Phrabuddhabatphlung Foundation, annual scholarships, scholarships from the Chanthaburi Association, academic and sports achievement scholarships, and more, which can be accessed through the Student Development Division's website.



Picture 2: Goal 1 The university supports scholarships to acknowledge accomplished athletes.

For students from the lowest-income households, the university has provided support for students to enroll and follow their study plans from the first year to the fourth year to ensure the successful completion of their education. Subsequently, the university has compiled a report on the educational achievements of scholarship students for the academic year 2022 and has created data charts reporting the graduation rates of scholarship students for the academic year 2022.

In cases where scholarship students continue their education in the following academic year, the university provides guidance and counseling to ensure that students complete their education according to the established plan.



Activities to assist and support low-income students at the university include:

1. Support for Student Amenities and Facilities

Rambhai Barni Rajabhat University supports students by providing various amenities and facilities, such as healthcare, exercise areas, on-campus transportation, libraries, and accommodations, to ensure that students can complete their higher education.

2. Support for Means of Subsistence

The university supports students in essential aspects of their well-being by offering scholarships to those from the lowest-income households and providing COVID-19 vaccination services for its students.



Picture 3: Goal 1 The university supports students in accessing healthcare and vaccination services.

The university has initiated projects to assist students who fall into the bottom 20% of the household income group. One such initiative is the Academic Market Fair, part of the university's 50th-anniversary celebration. This event aimed to cultivate entrepreneurial spirit and awareness among students, empowering them to generate income while pursuing their education. It inspired future business ventures, fostering the development of a new generation of entrepreneurs. Additionally, the University Business Incubator welcomes student entrepreneurs to apply for various programs, providing them with opportunities to nurture their business ideas across different sectors. Participation in these initiatives is entirely free for university students, with no associated costs.



Picture 4: Goal 1 The university has initiated a project aimed at assisting students by organizing an academic market in celebration of the 50th anniversary of Rambhai Barni Rajabhat University.

The Student Development Division, in collaboration with entrepreneurs, has currently accepted student applications for part-time jobs, aimed at providing students with additional income. This opportunity has been promoted through the Rambhai Barni Rajabhat University Student Development Division's Facebook page. This year the students have been accepted to work in 3 part-time job positions as bookstore assistants, promotional team members at the Pizza Hut Company, and research assistants. Due to the success of the initial rollout of the program, plans are being made to increase the number of positions available.

In the academic year 2022, the university supported four students from the Kingdom of Cambodia through the Royal Scholarships Under Her Royal Highness Princess Maha Chakri Sirindhorn Education Project to the Kingdom of Cambodia. This "full-ride" scholarship includes: tuition, housing, healthcare and visa related costs.

The university has encouraged the local communities for their local start-up businesses. The University Academic Service Center and faculty have done fieldwork, engaged with local communities, and collected and displayed their work on the project's website, aligning with SDG principles.



The university extends support to the local community through sustainable entrepreneurship initiatives. The projects are facilitated by the University Business Incubator and aim to assist and promote faculty, students, staff, alumni, and residents to connect academic knowledge and research results with commercial applications, nurturing new entrepreneurs and fostering the development of startups into full-fledged companies for the future. Additionally, the Health and Beauty Research and Development Center is involved in developing herbal products for health and beauty. The center also plays an important role in empowering local cosmetics entrepreneurs by enabling them to produce high-quality cosmetic products. This support contributes to increased income opportunities for these entrepreneurs. Furthermore, the center also addresses challenges faced by community enterprises in various areas that lack knowledge in standardized production. This effort aligns with the indicators for community enterprises and new entrepreneurs in the university's service areas who have found success through knowledge support from the university, as part of the first strategy for local development.

The university partners with the Government Savings Bank to organize the GSB Youth Local Conservation Project to foster learning among students and apply modern knowledge to enhance the quality and value of community products or services. The project also creates learning experiences and processes as well as knowledge exchange with communities. This involves understanding local lifestyles, identities, and indigenous wisdom, raising awareness of the importance of local development, and assisting community organizations in livelihood development, income generation, and the preservation of local wisdom.

University Business Incubator
 Rambhai Barni Rajabhat University

Business

- พัฒนาและปรับปรุงผลิตภัณฑ์ (Product Development)
- ปรึกษาทางธุรกิจ (Project Consultancy)

Marketing

- ฝึกอบรมความรู้ด้านการตลาด (Marketing Training)
- ผลิตสื่อประชาสัมพันธ์ (Publicity Media Production)
- ฝึกอบรมความรู้ด้านการตลาด (Marketing Training)

Branding

- ศึกษารายละเอียดและออกแบบตราสินค้า (Study details and design brand identity)
- ผลิตสื่อประชาสัมพันธ์ (Publicity Media Production)

หน่วยวิจัยและพัฒนา
 ผลิตภัณฑ์สมุนไพรเพื่อสุขภาพและความงาม
 มหาวิทยาลัยราชภัฏรำไพพรรณี
ONE-STOP SERVICE

- การวิจัยและพัฒนาสูตร**
Formula Research and Development
- การออกแบบ**
Logo and Label Design
- การจดทะเบียน**
FDA Cosmetics Registration
- การผลิตและบรรจุ**
Production, Packing and Quality Control

039-319111 ต่อ 10185
 ศูนย์สหกิจศึกษาและพัฒนาอาชีพ
 มหาวิทยาลัยราชภัฏรำไพพรรณี อาคาร 1 ชั้น 1
 เลขที่ 41 ม. 5 ต.กัญญา ต.เมืองจันทบุรี 22000
 www.facebook.com/ubirbru
 ubirbru.oc.th

Picture 5: Goal 1 The university has established both a University Business Incubator and a research and development unit dedicated to herbal health and beauty products, with the aim of supporting and benefiting local communities.

The university conducts a project for inspecting young durians, aimed at controlling, preventing, and addressing the issue of low-quality durians (unripe durians) entering the market in the provinces of Chanthaburi, Rayong, and Trat.





The university collaborates with Khao Chamao District, Rayong Province to organize the Community Product Development Project aimed at improving the quality of life in areas impacted by wild elephants. This initiative focuses on developing agricultural products and distribution processes, both online and offline, creating a new way of life where humans and wild elephants can coexist. It emphasizes cultivating crops that are not preferred by elephants and using them to produce community-branded products. In the future, this project will provide additional livelihood opportunities for those affected by wild elephants.

The university has developed an economic strategic plan that corresponds to the regional development plans. Additionally, Rambhai Barni Rajabhat University hosted a Focus Group meeting for the regional private sector economic development plan project from 2013 to 2027 in Chanthaburi Province, in collaboration with the Thai Chamber of Commerce, the Federation of Thai Industries, and the Thai Bankers' Association.

From January 31, 2022 to June 7, 2022, the Office of the Permanent Secretary at the Ministry of Higher Education, Science, Research, and Innovation conducted a series of workshops titled 'Regional Private Sector Economic Development Plan' for the years 2023 - 2027. The workshops aimed to clarify operational guidelines, planning, initial sets of policies, and the private sector's viewpoint in formulating the Regional Private Sector Economic Development Plan.

2 ZERO HUNGER



Research on Ending Hunger

Rambhai Barni Rajabhat University recognized the importance of local farmers and food producers to ensure sustainable livelihoods. To support this, the university encouraged its internal departments to provide farmers and food producers opportunities to utilize facilities, equipment, and modern technology according to their needs. The Eastern Agricultural and Food Products Research and Innovation Development Center offered services for testing, analysis, and development of agricultural and food products. This includes testing for residues in agricultural products and the detection of contaminants in food products.



Picture 1: Goal 2 Providing facilities, equipment, and knowledge to food producers at the Eastern Agricultural and Food Products Research and Innovation Development Center.

Rambhai Barni Rajabhat university promoted knowledge about food security to local farmers and food producers. In the year 2022, the university collaborated with the Department of Skill Development in Chanthaburi Province to train and educate beekeepers (Stinglessbee-Phayak Burapha Group) in Koh Kwaeng, Mueang, Chanthaburi, so that they can produce honey as a nutritious and safe product throughout the production

process. This involved knowledge of cultivating short-term, medium-term, and long-term crops to create a diverse ecosystem for bees' food sources. Additionally, they provided knowledge on extending the shelf life of honey and processing it into products to increase its value and stimulate the local economy.



Picture 2: Goal 2 Granting Phra Phutthabat Phluang Foundation Scholarships to students

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

Rambhai Barni Rajabhat University provides assistance to students who are food-insecure and hungry through scholarship grants, ensuring that students facing such challenges have sufficient financial support to access nutritious and affordable food. In the year 2022, students with good behavior and financial needs were selected to receive scholarships from the Phra Phutthabat Phluang Foundation, with the aim of improving students' access to good quality food and enhancing their overall quality of life.



Picture 3: Goal 2 Bottled drinking water branded as “Suan Ban Kaew”, directly printing labels onto the bottles.

The university has implemented a policy to address environmental issues by changing the packaging format for bottled drinking water branded as “Suan Ban Kaew.” This water is produced and distributed by a factory within the university. Instead of using plastic labels, the policy involved directly printing labels onto the bottles (Environmental-friendly packaging) to reduce the amount of plastic waste, which can become microplastics and can contaminate food, including being the main cause of global warming. This policy not only helps alleviate environmental concerns but also contributes to sustainable food sourcing.

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

The university offers educational programs aimed at enabling students to cultivate raw materials that can be used to produce food independently. The Faculty of Agricultural Technology offers a course in Mushroom Cultivation and Production, in which students receive practical training in mushroom mycelium and mushroom substrate and spawn preparation, mushroom fruiting stimulation, and more. Once students acquire expertise in these practices, they can produce mushrooms on their own to use as household food within their families. This not only helps students reduce their own and their families’ food expenses but also equips them with knowledge and skills they can use to pursue a sustainable income in mushroom production in the future.



Picture 4: Goal 2 Student’s practice on mushroom cultivation



Picture 5: Goal 2 Ready-to-sell mushroom spawn produced by students

In December 2022, the university celebrated its 50th anniversary with various activities. Each faculty encouraged the production and sale of affordable and healthy food during the event. The Faculty of Agricultural Technology offered a variety of food items, including chemical-free salads and water spinach, different types of mushroom spawn, salad rolls, Chanthaburi traditional spicy ‘Saentung curry paste’ chicken burgers, as well as grilled fish dishes with fresh vegetables.



Picture 6: Goal 2 Healthy food produced by students to sell at the university's 50th anniversary celebration

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

Rambhai Barni Rajabhat University supported the Eastern Agricultural and Food Products Research and Innovation Development Center, which organized activities to provide pre-harvest ripeness assessments for durian to farmers and durian producers in Chanthaburi Province and nearby provinces, under the supervision of the Provincial Agriculture Office in Chanthaburi. This activity encouraged collaboration and knowledge sharing among farmers and researchers. Throughout the service period, specialized personnel provided close assistance and consultation to farmers. It also facilitated the exchange of experiences regarding the maturity and starch content of different durian species, allowing for more accurate predictions of harvest dates in the future.



Picture 7: Goal 2 Durian Maturity Inspection at the Eastern Agricultural and Food Products Research and Innovation Development Center



Picture 8: Goal 2 Durian samples taken by farmers for durian maturity inspection

Rambhai Barni Rajabhat University has initiated a Social Enterprise (SE) project in collaboration with local community enterprises. They have purchased "Fang," an ancient indigenous herb promoted for cultivation to protect crops from wild elephants and create livelihoods for the Elephant Conservation Community Enterprise Group in Tapsai, Bong Namron District, Chanthaburi Province. The university has transformed these products into the "RBRU Herb Shot" and established a distribution plan for the future.



Picture 9: Goal 2 "RBRU Herb Shot", Fang extract drink manufactured by Social Enterprise (SE)



3 GOOD HEALTH AND WELL-BEING



Policy

Rambhai Barni Rajabhat University has adopted a policy for producing qualified nursing graduates from the Bachelor of Nursing Science program in order to tackle the shortage of registered nurses and fulfil local needs in community health care for people of all ages. Besides, the university has partnered with healthcare centres and other public units in Chanthaburi Province and nationwide. In 2023, the university also made a Memorandum of Understanding (MOU) with five additional government organisations. Besides, Rambhai Barni Rajabhat University joined the project with 38 other Rajabhat Universities, the academic service projects in the “Creation, Supplement and Happiness” campaign in collaboration with the Thai Health Promotion Foundation and a partnership with Trat Hospital regarding the MOU in producing nurses in Trat province. This also coordinated with Chanthaburi Provincial Prison offering health care services for prisoners’ physical and mental health. Furthermore, Rambhai Barni Rajabhat University supports a policy regarding students and staff’s good health and well-being by offering Mental Check-in. This proactive project provides free mental health support advice by registered nurses and lecturers from the Faculty of Nursing. The university is also concerned about the dangers of tobacco, which has a negative impact on the health and learning potential of all institutional students and become a smoke-free campus. Additionally, a smoke-free policy was introduced by the president of Rambhai Barni Rajabhat University in 2021 to create a non-smoking learning environment around the campus, as seen in picture 1.



Picture 1: Goal 3 The university has entered into a cooperation agreement with Chanthaburi Provincial Prison, committing to providing support for the physical and mental well-being of prison inmates.

Research

The university encourages the conduct of research, improving good health and well-being of all ages, particularly the elderly, which has increased significantly. Hence, there has been a considerable need for elderly health care from caretakers and family members. The previous studies carried out in 2022 also focused on elderly care, including “The Perceptions of Good Death of Older Adults and Prevalence and Predictive Factors of Elder Mistreatment”, which were published in international academic journals in picture 2.



Picture 2: Goal 3 The university actively supports research endeavors aimed at promoting good health and well-being across all age groups, with a particular emphasis on the growing elderly population.



Education

Rambhai Barni Rajabhat University has focused on producing medical science graduates. Moreover, the university has offered a Bachelor of Nursing Science program to create qualified nursing students to supplement the shortage of registered nurses for local and national needs. Overall, the number of graduate students from the program was 51 in 2022. The university also has promoted a role model for students regarding healthcare, providing advice and knowledge for initiating good health and well-being. This also involved holding academic activities for academic services and sharing knowledge with students, staff and those interested, such as the National Science Week 2022 hosted by student nurses. The event was held to provide knowledge in healthcare, CPR demonstration, the human body, and the dangers of tobacco by the Thai Society smoking-free club students, RBRU, to reduce the number of new smokers. Another activity included the breast cancer self-exam hosted by the Breast Care Club students, RBRU. Besides, there was a healthcare campaign for physical and mental support of the elderly, fostering positive behaviour and the elders' quality of life development in Chanthaburi Province. This campaign was a collaboration between the Faculty of Education and the Faculty of Nursing. Additionally, the last event shared elderly healthcare knowledge with elderly caretakers, contributing to the improvement of elders' quality of life and rehabilitation for post-COVID-19 syndrome patients of all ages, as seen in picture 3.



Picture 3: Goal 3 The university addresses the shortage of nursing professionals by offering a Bachelor of Nursing Science program, producing graduates who contribute to the local and national healthcare system, thereby ensuring the overall health of the community and the country.

Participation

Rambhai Barni Rajabhat University has promoted several collaborative healthcare and well-being projects with every unit in the society: communities, local people, community leaders, elderly schools, hospitals, educational institutions, foundations and local administrative organisations. These included the "Smile Strong Smart and Health for The Caregivers" and the Elderly school project that developed strategies for improving elders' physical and mental well-being. Another project was the Rhambhai Nurse Care which emphasised the recovery of post COVID-19 patients, partnered with Sirivej Chanthaburi Hospital, the nutritionist from the Rajamangala University of Technology and supported by student nurses from the Breast Care Club and True Plook Panya. This also encouraged students' leadership and volunteering to effectively share knowledge of cancer awareness and self-exam regularly to the public using BSE application (picture 4).



Picture 4: Goal 3 Nursing students from the Thanyarak Club at Rambhani Rajabhat University continue their commitment to disseminating knowledge about breast cancer. They advocate for accurate and regular breast self-examinations among the general public as part of their ongoing initiatives.



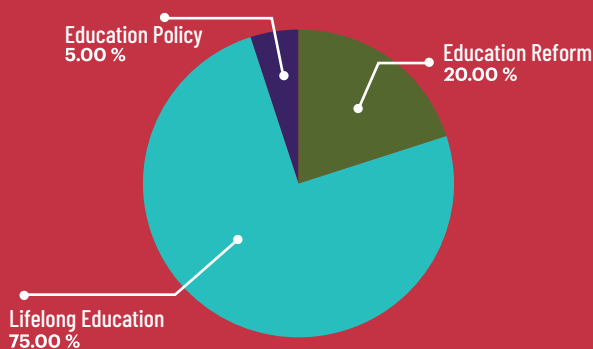
4 QUALITY EDUCATION



Rambhai Barni Rajabhat University is a higher educational institution for local development that focuses on raising the quality of education with a research mission to improve the quality of education. The university established policies to enhance learning accessibility, education concerning local youth access to education, and involvement in encouraging individuals of all ages to pursue lifelong learning. The details are as follows:

Research to Enhance the Quality of Education

With financial assistance from both internal and external sources, Rambhai Barni Rajabhat University supported research aimed at creating educational research and shared the results with the public so that those involved could apply them to raise educational standards. In the academic year 2022, the university published 20 research projects related to educational quality development in the TCI database: 15 research projects on lifelong education (75%), 4 research projects on education reform (20%), and a research project on education policy (5%).



Picture 1: Goal 4 The university has conducted a comprehensive total of 20 research studies focusing on the enhancement of educational quality, all of which have been published in the TCI database. These studies comprise 15 research projects centered around lifelong education, accounting for 75.00 percent of the total, 4 studies addressing educational reform, representing 20.00 percent, and 1 study dedicated to Education Policy, making up 5.00 percent of the overall research portfolio.

Establishing Policies for Learning Accessibility Concerning Education for All, Increasing Opportunities for Teacher Preparation and Development at All Educational Levels

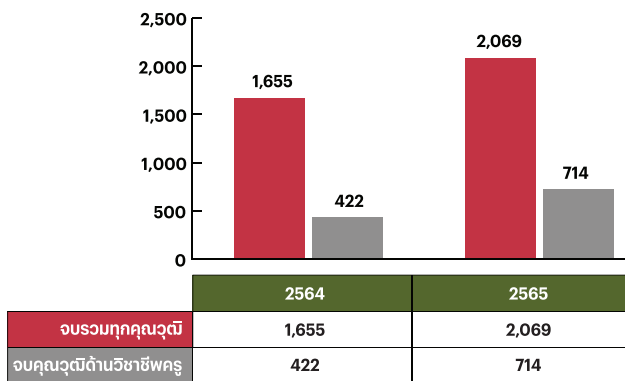
RBRU considered variations in gender, immigrant status, physical challenges, race, and religion when developing a strategy of lifelong learning accessibility linked to learning management for all. Additionally, the university developed educational rules that permitted students with various mental and physical challenges to take classes alongside regular students. Moreover, it waived the collection of special fees for international students involved in cooperative projects (MOUs) and established an educational management strategy that facilitated international students studying alongside Thai students. The institution also had the essential goals of educating teachers and raising the standard of education in the community. The primary unit for operations in coordination with other university faculties was the Faculty of Education, which specialized in generating qualified graduates with both graduate and bachelor's degrees. At the bachelor's degree level, the university provided education in a variety of teacher fields, including early childhood education, special education, physical education, social studies, English, Thai language, mathematics, computer, science,



biology, chemistry, physics, music, and industrial technology.

In the academic year 2022, There were a total of 2,069 graduates, including 714 graduates with teaching credentials. 700 bachelor graduates (33.83%) represented a rise in comparison to the previous academic year's proportion, while 14 graduate students (0.67%) represented a fall in comparison to the previous academic year's proportion.

เปรียบเทียบการเข้าศึกษาและการจบการศึกษาของนักศึกษา



Picture 2: Goal 4 In comparison to the student population in the 2021 academic year, there were a total of 1,655 graduates with various qualifications. Among them, 422 graduates possessed teaching qualifications, with 400 at the bachelor's level, accounting for 24.16 percent, and 22 at the graduate level, representing 1.32 percent.

Education Concerning the Local Youth Access to Education

With equal possibilities for continued education in mind, the institution offered education to young people throughout its service region. This was demonstrated by the university's establishment of reasonable and equitable tuition rates and its awarding of scholarships to deserving students to lower living costs for families of students. In the academic year 2022, the university provided up to 54 courses in a range of areas allowing local youth to select courses based on their needs and capabilities. All courses met both educational requirements and the professional council standards.

Involvement in Encouraging Individuals of All Ages to Pursue Lifelong Learning

The university encouraged people of all ages to pursue lifelong learning. In the academic year 2022, the following operations took place:

1) Public learning resources were activated by integrating with graduate preparation, providing learning support services to outsiders of all ages,

and giving locals access to a variety of free public learning resources, such as libraries, tools, equipment, technology, locations, and online resources; additionally, by applying through the university website at <https://mooc.rbru.ac.th>, non-current students could apply for free training courses together with an information system for overseeing the social media academy's participatory learning materials and obtain a certificate attesting to their completion of the course.

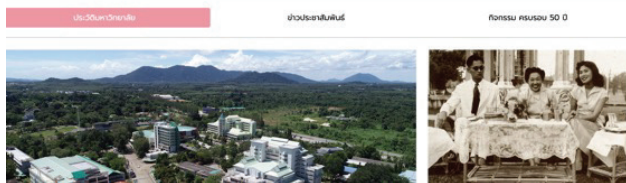


งานสัปดาห์วิทยาศาสตร์แห่งชาติ
"เศรษฐกิจชีวภาพ เศรษฐกิจหมุนเวียน เศรษฐกิจสีเขียว BCG"
18-20 สิงหาคม 2565 | ณ มหาวิทยาลัยราชภัฏรำไพพรรณี





RBRU | Anniversary 50th
 Rambhai Barni Rajabhat University



Picture 3: Goal 4 The university has implemented an information system aimed at offering cost-free learning activities for basic education students. Two notable projects have been undertaken as part of this initiative: the National Science Week and the 50th Anniversary Academic Week of Rambhaibarni Rajabhat University.

2) The provision of free learning activities to basic education pupils served as a catalyst for public lifelong learning initiatives. The National Science Week, themed “Circular Economy Green Economy BCG,” took place from August 18 to 20, 2022, at Rambhai Barni Rajabhat University. The 50th Anniversary Academic Week of Rambhai Barni Rajabhat University, themed “Intelligence to Sustainability,” took place from December 10 to 20, 2022, at Rambhai Barni Rajabhat University.

3) By offering free professional training sessions and lifelong learning to the public, the university arranged professional training programs. Two particularly noteworthy actions were presented. First, the effort to raise the standard of instruction in small schools under the OBEC, Border Patrol Police schools, and Education Fund schools was responsible for developing professional competency among educators and teaching staff. The objective was to establish a network of collaboration among educational institutions to share best practices and standards for leveraging innovation to improve student outcomes. The Office of the Basic Education Commission, Border Patrol Police No. 11 schools, Education Fund schools, and the Faculty of Education worked together on this initiative. There were 104 participants at Academic Building 39, 8th Floor, Faculty of Education, Rambhai Barni Rajabhat University. Second, the activity to develop skills required for professional practice was the project “Learning Resources to Enhance Experiences Outside the Classroom in Producing Cosmetics with High Quality and Standards” at the Research and Development Unit for Herbal Products for

Health and Beauty at the Cooperative Center, Rambhai Barni Rajabhat University.



Picture 4: Goal 4 The university has initiated a project titled “A Learning Center for Experiential Education in the Production of High-Quality and Standards-Compliant Cosmetics.” This project is designed to cultivate the skills essential for professional practice and is hosted at the Herbal Product Research and Development Unit for Health and Beauty within the Cooperative Education Center at Rambhai Barni Rajabhat University.

4) Using academic knowledge to develop and address community problems in accordance with needs and requirements was known as academic services provided outside of universities. There were two exceptional projects to address issues and raise community members’ standards of living. First, Government Savings Bank and Rambhai Barni Rajabhat University collaborated on the “Government Savings Bank Yuwapat Rakthin Project 2022: Enhance Local Wisdom Activities.” By developing a process to strengthen and develop community groups’ capability in business operations through the creation of potential products or services, adding value, and raising the quality of products or services to meet market needs, the



project aimed to integrate the wisdom and modern technology of higher education institutions with wisdom and local resources. This strengthened the learning management process for students participating in the project, as well as creating jobs and stable income for community group members sustainably. This strengthened the learning management system for the students involved and sustainably produced steady employment and income for community group members. The second was the 160th Eco Mathematics Camp Project for elementary and secondary school students on December 19, 2022. The objectives of the project were to: provide school students with knowledge and comprehension of mathematics and encourage them to have a positive attitude towards mathematics coupled with environmental conservation; and provide university students with the skills to plan lessons and organize activities applied in classroom teaching. This project improved their understanding of mathematics.

The above-mentioned details made it abundantly evident that Rambhai Barni Rajabhat University's commitment to providing high-quality education was a reaction to achieving sustainable development goals.



Picture 5: Goal 4 The Yuwapat Rakthin Government Savings Bank Project for the year 2022 focuses on "Activities to Enhance Local Wisdom". This initiative is a collaborative effort between universities and the Government Savings Bank.



Picture 6: Goal 4 The 160th Eco Mathematics Camp Project is tailored for elementary and secondary school students, emphasizing an ecological approach to mathematics education. This camp aims to provide an engaging and environmentally-conscious learning experience for participating students.

5 GENDER EQUALITY



The university encouraged female students to represent the university in regional and national sports competitions and form partnerships with other organizations or communities.

1. Thirteen female athletes made among 36 athlete representatives (36%), competing in the 48th Thailand University Games, Dok Chan Ban Chiang Games, held at Udon Thani Rajabhat University, Udon Thani Province, from January 21 to 30, 2022.



Picture 1: Goal 5 The 48th Thailand University Sports Competition is a significant event that brings together university athletes from across the country to compete in various sports. This competition serves as a platform for showcasing the athletic prowess and sportsmanship of university students, fostering healthy competition and camaraderie among participants.

2. There were 25 female athletes out of 96 athlete representatives competing in the 31st Central Region Rajabhat University Sports Competition (RajabhatRachanakarin Games) at Rajabhat Rajanagarindra University, Chachoengsao Province, April 23-28, 2022.



Picture 2: Goal 5 The Rajabhat University Sports Competition in the Central Geographic Area is a regional event that brings together athletes from Rajabhat universities in the central region. This competition serves as a platform for these universities to showcase the athletic talents of their students in various sports, promoting friendly competition and fostering a sense of community within the central geographic area.

3. In the over-18 judo competition at the "Decathlon Thailand Judo Competition 2022" held at Decathlon Rama 2, Bangkok, on October 22-31, 2022, Miss Onuma Rakchart won second runner-up.

4. The 13th Thailand Jujitsu Championship 2022 took place in Rangsit University's Recreation Building from September 16-18, 2022. In the duo show, Miss Kanyawee Phonsuwan placed first runner-up, earning a silver medal.



Picture 3: Goal 5 The 13th Thailand Jujitsu Championship 2022 took place in Rangsit University's Recreation Building from September 16-18, 2022. In the duo show, Miss Kanyawee Phonsuwan placed first runner-up, earning a silver medal.



5. Miss Onuma Rakchart and Miss Rattiyakorn Kayphutsa were the competitors in “The 13th Thailand People’s Judo Championship in 2023,” on April 19-23, 2023, at Thasala Prasit Suksa School, “Thasala District, Nakhon Si Thammarat Province.”



Picture 4: Goal 5 The Thailand People’s Judo Championships is a notable event that gathers judo enthusiasts and practitioners from across the country. This championship provides a platform for skilled athletes to showcase their judo expertise and compete at a national level. It serves as a significant avenue for promoting the sport and fostering a sense of community among judo practitioners in Thailand.

6. There were 23 female athletes out of 106 athlete representatives (21%), competing in “The 28th Central Region University Sports Qualifying Competition (RBRU Games)” on October 17-21, 2022, at Rambhai Barni Rajabhat University.



Picture 5: Goal 5 The 28th Central Region University Sports Qualifying Competition, also known as RBRU GAMES, is a significant sporting event that brings together university athletes from the central region. This competition serves as a qualifying round, providing a platform for talented athletes to showcase their skills and qualify for higher-level university sports competitions. RBRU GAMES fosters healthy competition and camaraderie among participants in various sports disciplines.

7. Only one female student delegate from the university was chosen to compete in the royal awards at Thepsatri Rajabhat University on March 27-29, 2023, and she was granted the royal honor.



Picture 6: Goal 5 The university has nominated female students to participate in the selection process for the Royal Award for Higher Education in the academic year 2022. Subsequently, these students have been honored to receive the prestigious Royal Award, recognizing their outstanding achievements and contributions to higher education.

Proportion of Academic Females Employed in 2022

Rambhai Barni Rajabhat University established a policy to facilitate the enhancement of staff capability while maintaining gender parity. This was evident from the fact that, out of 337 total, 216 female academics (57.29%) were appointed as academic university personnel.

It showed how the institution supported women’s involvement in department, faculty, and university administration and promoted status equality; as a result, they were able to showcase their talents in a variety of professions without facing prejudice or barriers. The institution increased female academics’ fulfillment by highlighting and rewarding their academic achievements, which was acknowledged by all staff members.

Proportion of Women Receiving Degrees in 2022

In the academic year 2022, the proportion of females graduating and receiving degrees was determined by dividing the number of graduating females by the total number of graduates and weighted in three areas: STEM, medical, as well as arts, humanities, and social sciences. A total of 1,402 people graduated: 667 in the STEM (science, technology, engineering, and mathematics) major and 735 in the arts, humanities, and social sciences major. 971 graduates, or 69.26%, were women.

This indicator was compared between all 1,402 graduates (100%) and 971 female graduates (69.26%) by using this formula: $\frac{971 \times 100}{1,402} = 69.26\%$



This high percentage of female graduates from RBRU strongly suggests acceptance.

Measuring Women's Progress

Policy of Non-discrimination Against Women in 2022

Have a Policy of Non-discrimination Against Women

Rambhai Barni Rajabhat University set policies to provide jobs for both genders without discrimination in the academic year 2022. The following duties fell under the purview of the personnel department: creating announcements for the hiring of academic and support staff required for the job; offering basic living benefits and training; organizing voting procedures for the election of office directors; and creating scholarships for additional education or training.

Non-discrimination Policies for Transgender in 2022

Have a Policy of Non-discrimination for Transgender People

According to RBRU press releases in 2022, there were various announcements without gender discrimination, which presented training participations, honor declarations, academic positions, administrative positions, and community services opportunities for institutions, provinces, regions, and the nation.

Maternity and Paternity Policies Year in 2022

Have Maternity and Paternity Policies Supporting Women's Participation

Personnel have the right to receive maternity leave for 90 days with compensation during leave not exceeding 45 days and the maternity leave allowance from the Social Security Fund, according to the Law on Social Security and Rambhai Barni Rajabhat University Regulations Regarding Criteria and Methods for Personnel Management, Disciplines and Discipline Conservation, Retirement from Government Service, Appeal, Complaints, and Consideration of Academic Positions of University Personnel (No. 2), B.E. 2558 (2015).

Creating Projects with Women's Participation in 2022

Have Projects Created by Women who are Co-creators and at Least 10 Percent of Female Students Participating in the Projects

The Faculty of Nursing organized the "Hope and Happy" project, providing advice and motivation for students on how to manage their stress levels and take care of their mental health by lecturers in the Department of Psychiatry and Mental Health.

Hope and Happy
บริการให้คำปรึกษา

ตรงนี้มีเพื่อน รับฟัง เป็นกำลังใจ

เปิดบริการ on site ทุกวันราชการ
วันจันทร์-พฤหัสบดี เวลา 13.00 - 16.00 น.
วันศุกร์ เวลา 09.00-12.00 น.

นัดบริการ on line
สแกน QR code เข้ากลุ่ม line
เพื่อนัดวันรับบริการให้คำปรึกษา

สแกน QR code เชื่อมชมเว็บไซต์
Hope and Happy

สแกน QR code เพื่อ
การพูดคุยในเว็บบอร์ด

ติดต่อสอบถาม
089-6365469
097-0327927

สถานที่ตั้ง และรายละเอียดการบริการ
<https://hope-happyroom.my.canva.site/>
ห้อง 123 อาคาร 1 ชั้น 2 คณะพยาบาลศาสตร์

Picture 7: Goal 5 The Faculty of Nursing organized the "Hope and Happy" project, providing advice and motivation for students on how to manage their stress levels and take care of their mental health by lecturers in the Department of Psychiatry and Mental Health.

The group of 100 female students and personnel participating in the national mental health week activities in 2022 was held on November 17th, 2022, at Convention Hall 35201, Building 35. This activity was a collaboration between the Faculty of Nursing and Mental Health Center 6, the Department of Mental Health.



Picture 8: Goal 5 The group of 100 female students and personnel participating in the national mental health week activities in 2022 was held on November 17th, 2022, at Convention Hall 35201, Building 35. This activity was a collaboration between the Faculty of Nursing and Mental Health Center 6, the Department of Mental Health.

-RambhaiBarni Rajabhat University and the Department of Mental Health invited all administrators, professors, university staff, employees, and students to use the Mental Health Check-In website, which could be found at <https://me-qr.com/9JEVKwG>, to assess their mental health.



Picture 9: Goal 5 RambhaiBarni Rajabhat University and the Department of Mental Health invited all administrators, professors, university staff, employees, and students to use the Mental Health Check-In website, which could be found at <https://me-qr.com/9JEVKwG>, to assess their mental health.

7 AFFORDABLE AND CLEAN ENERGY



Policy

Rambhai Barni Rajabhat University has set targets based on environmental policy 2022 as guidelines for personnel work. Rambhai Barni Rajabhat University meets the evaluation criteria of the Department of Environment by having a greenhouse gas emissions measures campaign that uses bicycles or walking when sending documents among departments and sending various document information through the electronic system. Utilizing organic or biological fertilizers instead of chemical fertilizers to plant trees to increase the absorption of carbon dioxide. There is a policy that emphasizes the importance of checking whether improvements or creation of every new building meets standards in terms of energy efficiency.

Energy Management, Resources, and Environment Measures, Office of the President at Rambhai Barni Rajabhat University 2022; building measures:

- Consider using environmentally friendly building materials.
- Consider choosing bright colors to reflect light and reduce heat absorption.
- Create a work-friendly department environment with green spaces.
- Consider using natural light, and ventilation that are suitable for the building's purposes.

There is a policy to stop and reduce investment in carbon-based energy industries, particularly coal and fuel.

Research

A research team at Rambhai Barni Rajabhat University (RBRU) focuses on clean, affordable energy according to the strength measurement criteria of the article, such as the development of a small solar-powered shallow groundwater pumping demonstration system for household use.



Picture 1: Goal 7 The university is actively engaged in the development of a demonstration system focused on small-scale solar-powered shallow water groundwater pumping for household use. This initiative aims to showcase sustainable and renewable energy solutions by harnessing solar power to facilitate groundwater pumping, particularly for domestic needs. The project seeks to demonstrate the feasibility and practicality of utilizing solar energy for water access in a small-scale, household context.



Rambhai Barni Rajabhat University participated in a seminar and showcase organized by the Chanthaburi Provincial Agriculture Office. The event was focused on the theme of “Opening the World of Modern Agricultural Innovation” and was held at the Victoria Meeting Room in the Grand Forest Hotel, Mueang Chanthaburi District, Chanthaburi Province. This event aimed to create a platform for exchanging knowledge and developing new generations of farmers to become “Young Smart Farmers.” This was the first phase of the Smart Farmer Development Project. This can develop the academic and technological knowledge of the new generation of farmers as well as connect networks of new generations of farmers in the area to have potential and capability in agriculture replacing elderly farmers by applying modern technology in farming. Furthermore, to enhance production efficiency, market agricultural products effectively, and become a leader in local agriculture.



Picture 4: Goal 7 Rambhai Barni Rajabhat University actively participated in an invited seminar, collaborating with the Chanthaburi Provincial Agricultural Office. The seminar focused on the theme “Opening the World of Modern Agricultural Innovation.” During the event, the university showcased collaborative work and initiatives aimed at advancing modern agricultural practices, highlighting innovations that contribute to the evolution of the agricultural sector. This collaborative effort underscores the commitment of both the university and the agricultural office to promote and share knowledge on contemporary agricultural advancements.





11 SUSTAINABLE CITIES AND COMMUNITIES



Public access to buildings in 2022

On February 14th, 2000, the Rambhai Barni Rajabhat Institute (Became RBRU in 2000 Rambhai Barni Rajabhat University) invited the Royal Monument of Queen Rambhai Barni of the reign of King Rama VII to be enshrined on a pedestal on the side of the Palace (Gray Building) in the area of Suan Ban Kao Palace. Later, on July 24th, 2000, Her Royal Highness Princess Maha Chakri Sirindhorn presided over the opening ceremony of the Royal Monument of Queen Rambhai Barni at the Gray Building of Suan Ban Kao Palace, Rambhai Barni Rajabhat University, so that the local people in Chanthaburi Province and nearby provinces can come and pay homage in the university area free of charge until now.



Picture 1: Goal 11 The Royal Monument of Her Majesty Queen Rambhai Barni, the Queen during the reign of King Rama VII.

Public access to libraries in 2022

The Central Library of Rambhai Barni Rajabhat University offers a variety of services that distribute information free of charge for both the public and members as follows: 1) information services that can be accessed by the public such as information resource search service (OPAC), online research and theses database service (RBRU e-Research and RBRU e-Theses), and local

Chanthaburi Province database (RBRU e-Culture), etc. and 2) information services that only members can access, such as foreign online databases and digital library systems, etc.



Picture 2: Goal 11 Central Library, Rambhai Barni Rajabhat University

Public access to museums in 2022

In the past, "Suan Ban Kao Palace" served as the residence of Her Majesty the Queen Rambhai Barni, the Queen of the reign of King Rama VII, in Chanthaburi Province. Her Majesty generously donated part of the palace grounds to the Ministry of Education, leading to the establishment of "Rambhai Barni Rajabhat University". The Queen Rambhai Barni Museum was founded in 2008. In 2021, the university initiated a comprehensive restoration project for Suan Ban Kao Palace, temporarily closing the museum until late 2022. During December 10 – 20, 2022, the university celebrated its 50th anniversary at the newly restored Suan Ban Kao Palace area. Presently, the museum showcases personal belongings of Her Majesty the Queen Rambhai Barni and welcomed visitors free of charge. The university also provided complimentary tour guide services.



Picture 3: Goal 11 "Wang Suan Ban Kaeo" is the residence of Her Majesty Queen Rambhaibarni of the reign of King Rama VII in Chanthaburi Province.

Public access to green spaces in 2022

Rambhai Barni Rajabhat University, under the auspices of Her Royal Highness Princess Maha Chakri Sirindhorn, has undertaken a noble initiative to conserve plant genetics. This undertaking has been allocated a substantial 20 acres area within the university. Commencing in 1997, the university has steadfastly and continuously managed this conservation project.

In the preceding year, the university conducted various activities within this designated area. For instance, on December 20th, 2022, Rambhai Barni Rajabhat University organized a free of charge science camp project aimed at elucidating the natural sciences pertaining to plant genetics preservation within the forest. The day's activities encompassed a total of 5 learning bases, each offering unique insights into the natural world. Teachers and students from Benchamarachuthit School and Benjamasorn School in Chanthaburi Province actively participated, with a total of 50 enthusiastic individuals joining in the educational and conservation-oriented activities.



Picture 4: Goal 11 Plant genetic conservation project due to the royal initiative of Her Royal Highness Princess Maha Chakri Sirindhorn supported by Rambhai Barni Rajabhat University.

Arts and heritage contribution in 2022

The Faculty of Humanities and Social Sciences of RBRU offered teaching in Music Education program that supported and promoted art, culture, intellectual heritage, and local arts in 2022 were as follows:

- May 22nd, the Thai music ensemble played during the wreath laying ceremony anniversary of H.M. Queen Rambhai Barni
- June 24th, Music is My Life Band, from music club, performed music on World Anti-Drug Day at Streemandapitak School.
- October 17th, the university's wind orchestra participated in the opening ceremony of the 48th Thailand University Sports Competition.
- December 5th, the university's orchestra played "Music in the Garden H.M. Song: MHESI plays Father's song" in the honor of His Majesty the King Rama IX.
- December 6th, the university's wind orchestra played at the ceremony to present the Royal Seal and the Seal of Sakdidej for the academic year 2022.
- December 14th, the university's wind orchestra with Thai music ensemble played at the opening ceremony of Her Majesty the Queen Rambhai Barni's Day.



Picture 5: Goal 11 A wind orchestra played at the ceremony to present the Royal Seal and the Seal of Sakdidej along with royal decorations for the academic year 2022.

Record and preserve cultural heritage in 2022

The Office of Arts, Culture and Community Development of RBRU had a mission of driving arts, culture and Thai identity. Several activities were organized to preserve and conserve cultural heritage at both the local and national levels as follows:

July 8th – 11th, 2022: Candle casting ceremony for the Buddhist Lent festival within the University.

February 26th, 2022: The Office of Arts, Culture and Community Development of RBRU together with a group of local artists, the Chanthaburi Provincial Cultural Office, and the Chanthaburi Government Savings Bank jointly organized a demonstration of portrait painting with acrylic and watercolor.

November 9th, 2022: RBRU organized the Loi Krathong event in the area within the university.

On October 20th, 2022, Assistant Professor Waikoon Tongaram, the President, as a representative of Rambhai Barni Rajabhat University, signed a memorandum of understanding for cooperation to exchange folk arts and culture with the international representatives from 13 countries, including Hungary, Sri Lanka, Italy, Cambodia, China, Bulgaria, India, Indonesia, South Korea, Poland, the Philippines, Burma, and Thailand at at Siri Rambhaibhan Auditorium. The MoU mainly focused on folk, culture and language exchanges.



Picture 6: Goal 11 The university has recently signed a memorandum of understanding (MOU) with international representatives from 13 countries, fostering the exchange of folk art and culture. The participating countries include Hungary, Sri Lanka, Italy, Cambodia, China, Bulgaria, India, Indonesia, South Korea, Poland, the Philippines, and Burma. This collaborative agreement aims to promote cultural exchange, strengthen international ties, and facilitate the sharing of diverse folk traditions among the participating nations.

Arts and heritage expenditure in 2022

	Definition
The university expenditure was 633,614,800 Bath	The university expenditure in financial year 2022
The expenditure allocated for arts, culture, and intellectual heritage was 33,991,500+2,697,282=36,688,782	University expenditure spent on supporting arts and heritage in financial year 2022

Picture 7: Goal 11

Sustainable practices targets in 2022

Rambhai Barni Rajabhat University has carpooling services for both university's members and students as follows:

1. For university members: The university has a shared central service vehicle for university members on official duties performed at the same location.
2. For students: The university provides on-campus, pick-up and drop-off services for students. There is a bus stop for the service vehicle in front of Rim-Green building (a building nearby the main entrance of the university) to various locations throughout the university including classroom buildings, the library, the cafeterias, and student dormitories, etc. The service is available every weekday from 8:30 a.m. - 4:30 p.m.

Promote sustainable commuting in 2022

Rambhai Barni Rajabhat University had a policy for environmental management as a guideline for promoting sustainable travel practices. The university announcement from the Office of the President regarding energy, resources, and environmental management for the year 2022 was consistent with energy saving in many areas. In the announcement, the university launched a campaign to encourage people to be physically active for good health by posting calorie-expenditure signs on the steps of many buildings, such as the President's office building.

Allow remote working in 2022

On October 7th, 2021, Rambhai Barni Rajabhat University issued the 26th announcement of measures and guidelines for university members and students (additional announcement), as guidelines for various practices during the outbreak of coronavirus disease 2019. This announcement contained important points regarding the work of university members, which required academic personnel to work at their houses. In addition to controlling the Covid-19 outbreak, it also promoted personnel to be able to work remotely with flexibility. It also reduced the travel burden for personnel. The announcement is still in effect until now.



Affordable housing for employees in 2022

Rambhai Barni Rajabhat University provided accommodation for personnel, with residential buildings in the form of condominiums and houses. The university had allocation criteria in accordance with the regulations of Rambhai Barni Rajabhat University regarding government accommodation management, 2009. Those wishing to stay could submit an accommodation request form to be considered for allocation according to the process set by the university. The university collected accommodation fees by deducting the salary that personnel received from the university.

Affordable housing for students in 2022

Rambhai Barni Rajabhat University provided accommodation for students with residential buildings in the form of condominiums and houses at very low prices. The university had allocation criteria according to the regulations of Rambhai Barni Rajabhat University regarding government accommodation management, 2009. In 2022, dormitories within the university were allocated to a total of 241 students.

Pedestrian priority on campus in 2022

Rambhai Barni Rajabhat University placed great emphasis on pedestrian safety within the campus. The university provided bus routes to serve students within the university and provided clearly designated pick-up and drop-off points. The university also provided crosswalks at various intersections as well as sidewalks throughout the university to protect pedestrians, such as around academic buildings, office buildings, the cafeterias, student dormitories, and the library, etc. The university has also created speed humps on the road to slow down vehicles when driving in the campus. In addition, security officers were appointed to act in place of the traffic police within the university during peak traffic hours.

Local authority collaboration regarding planning and development in 2022

Rambhai Barni Rajabhat University worked with the government's financial institutions by signing a memorandum of understanding to deal with the problem of housing needs for university personnel from the past until the present as follows:

1. Memorandum of understanding between Krung Thai Bank Public Company Limited and

Rambhai Barni Rajabhat University regarding loans for housing for civil servants under the welfare loan project on June 20th, 2018.

2. Memorandum of understanding between the Government Housing Bank and Rambhai Barni Rajabhat University regarding loans for housing of civil servants on August 1st, 2002.

According to the memorandum of understandings, the loan must be for the purpose of purchasing land or buildings for personnel housing. For installment payments, Rambhai Barni Rajabhat University would deduct the borrower's income and remit it to the bank monthly.

Planning development – new building standards in 2022

Rambhai Barni Rajabhat University placed great emphasis on construction within the university. The university had a 5-year green university development plan (2017-2021). According to the plan, item 2, the university established a policy for constructing environmentally friendly buildings. The university had an announcement from the Office of the President to use as criteria for building design operations regarding energy, resources, and environmental management measures for the year 2022. The announcement was in line with the construction of buildings under sustainability standards, such as building design, considering the use of environmentally friendly building materials, considering the use of bright colors to reflect light and reduce heat absorption including creating a green environment that was conducive to working, using natural light, and ventilation.

Building on brownfield sites in 2022

Rambhai Barni Rajabhat University placed great emphasis on construction within the university. The university had a 5-year green campus development plan (2017-2021). The plan stated clearly in item 2 that "new buildings should replace old buildings that were deteriorating".

In 2022, there were four construction projects in the designated areas for buildings within the university as follows:

1. Improvement of reinforced concrete roads project
2. Swimming pool construction project
3. 115-kilovolt substation construction project
4. Water pipe system improvement project

Plans for future improvements are continually updated with the most up-to-date information.



Picture 8: Goal 11 The university has initiated a project aimed at constructing buildings within its premises to optimize available space for various purposes. This project likely involves planning, designing, and constructing structures that can cater to the diverse needs of the university community, such as academic facilities, administrative offices, research centers, or recreational spaces. The goal is to enhance the overall infrastructure and create functional, well-utilized areas within the university campus.



13 CLIMATE ACTION



This report outlines RBRU's initiatives and efforts in the field of energy management, environmental education, and participation in climate change-related projects. The report focuses on key areas such as: energy consumption, renewable energy adoption, participation in environmental conferences, educational collaborations, and projects aimed at climate change adaptation.

Energy Management

1.1 Submission of Energy Management Report and Data Submission to e-report.energy.go.th

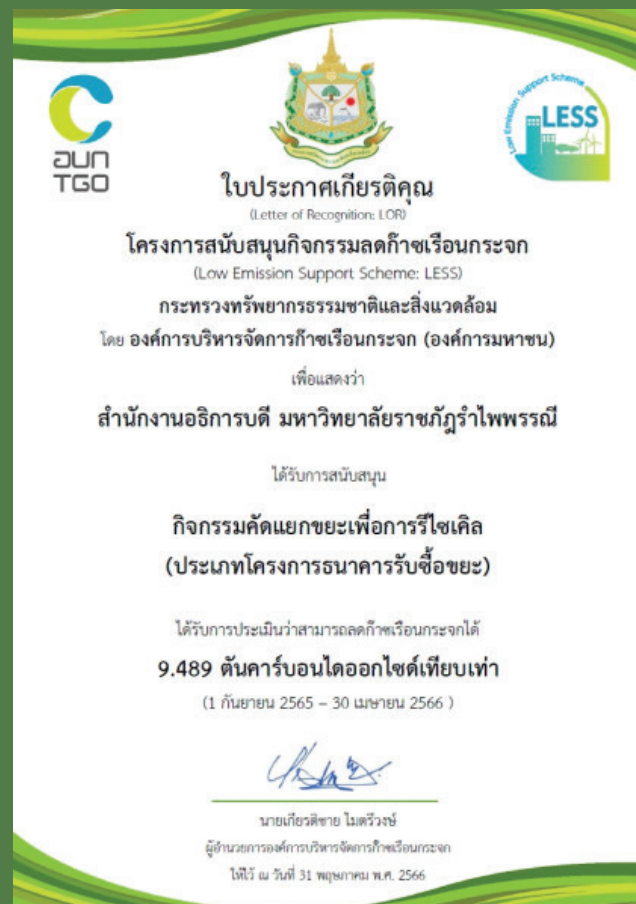
RBRU has proactively sent an energy management report to the Bureau of Energy Regulation and Conservation, the Department of Alternative Energy Development and Efficiency, the Ministry of Energy.

The data detailed about energy consumption that was submitted to the website "e-report.energy.go.th" showed a total energy consumption of 13,449 gigajoules (GJ), 12,366 GJ from electricity and 1,083 GJ from fuel.

1.2 Adoption of Low-Carbon Energy Solutions and Enrollment in Carbon Footprint of Organizations Program

RBRU is committed to Low-Carbon Energy, as evidenced by the installation of 10 solar floodlights utilizing 30-watt 6-volt solar panels. This marks a significant step toward renewable energy sources.

We anticipate joining the Carbon Footprint of Organizations program, supported by the Thailand Greenhouse Gas Management Organization (TGO). This initiative aims to promote a low-carbon concept across three scopes of emissions, including supporting the Low Emission Support Scheme, emphasizing recycling waste as means to contribute to environmental sustainability.



Picture 1: Goal 13 RBRU Low Emission Support Scheme Certificate



Research

2.1 Collaboration with ICCC 2022 and 2023

RBRU has engaged in environmental education through collaboration with the International Conference on Climate Change (ICCC) in 2022 and 2023. The research focus, titled "TOWARD A STUDY OF CLIMATE CHANGE AND RESPIRATORY HEALTH IN EASTERN AUSTRALIA," showcases the institution's commitment to addressing pressing global issues.



Picture 2: Goal 13 Collaboration with the International Conference on Climate Change ICCC2022

Education

3.1 Knowledge Dissemination on Carbon Credits

RBRU is actively addressing the annual integrated inspection in 2022 by the Ministry of Higher Education, Science, Research and Innovation. Efforts are underway to provide knowledge about carbon credits, foster collaboration to reduce greenhouse gas emissions and support generating long-term income from carbon trading.

Participation

4.1 Climate Change Resilience Projects

RBRU is actively preparing for climate change by implementing projects such as check dams for erosion control and soil conservation. This involves constructing dams in the headwaters areas to reduce sediment transport in water and providing practical training in water management.

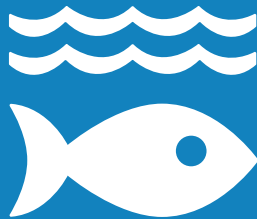
4.2 Coral Restoration Project

Supported by the Faculty of Science and Technology, RBRU is engaged in the Coral Restoration project. This initiative promotes marine and coastal learning, utilizing coral as a foundation, in collaboration with the Koh Mak Coral Conservation Group.



Picture 3: Goal 13 KO-MAK Coral Restoration Project

14 LIFE BELOW WATER



Policy and Management

Rambhai Barni Rajabhat University has several policies and action plans concerning SDG 14. For example, for the policy of ensuring that food on campus that comes from aquatic ecosystems is sustainably harvested, the university has established a sufficiency economy learning center and produced freshwater fish to sell them to the university personnel. In addition, this activity is integrated with the subject of freshwater animal culture technology. The university also has the policy of providing academic services which disseminate knowledge on safe food production to outside communities. An example is an academic service activity about simple cultivation of Spirulina algae and watermeal for people in the area to sustainably harvest food from aquatic ecosystems. For environmental policies that may affect aquatic ecosystems, there is wastewater treatment from laboratory experiments in science subjects. The university also has an action plan to reduce plastic waste on campus through the Green Office operation. There are some waste sorting activities for recycling and supporting buying and selling different types of garbage continuously throughout the fiscal year. Moreover, there are also some academic service activities to promote garbage sorting at source and to establish youth groups in fishing communities on the eastern seaboard to eliminate marine waste in the Blue Swimming Crab Bank project. The university also has a plan to minimize physical, chemical and biological alterations of related aquatic ecosystems and has implemented a watershed management strategy in the master plan of Plant Genetic Conservation Project under the Royal Initiation of Her Royal Highness Princess Maha Chakri Sirindhorn (RSPG) in the fifth phase in the seventh year about

the forest areas of both in the protected areas and outside the protected areas. It also includes assessing risk and vulnerability from climate change affecting the marine and coastal ecosystems such as coral bleaching and loss of seagrass, from the accumulation of sediment flowing from the coast including wet areas influenced by sea water such as sedge field plot. Moreover, there is monitoring waste (micro plastics) in the sea and along the coast and its effect upon marine animals. The budget has been allocated to continue operations continually.



Picture 1: Goal 14 The fresh-water fish farmed in the university from integrating with the teaching and learning activities (Left) and the greenhouse gas reduction activity supported by the waste sorting activity for recycling (Right)

Research and Innovation

Rambhai Barni Rajabhat University has some research about maintaining the ecosystem and biodiversity, and the research findings have been published in national journals. The examples of research papers were "Population Ecology and Natural Diet of Banded Leg Swimming Crab *Charybdis annulata* (Fabricius, 1798) at Ao Yang Bay, Chanthaburi Province" and "Determination of Heavy Metals in Economically Important Bivalve, Chanthaburi Province". The university has carried



out research which uses technology or guidelines applied in the marine industry to help reduce damage to aquatic ecosystems. For example, the research on “Video Recording Using an Automatic Identification System to Determine the Ship’s Coordinates”, the technology can be applied to inspect videos and photos of ships, which have automatic identification systems, when entering the surveillance areas or study areas automatically. Another example is “Counting the Number of Soft-Shell Crabs in a Basket with YOLOv5s”. This technology can save soft-shell crab farmers from having to visually inspect the molt, can help them reduce the burden of work, and can be adjusted to automatic mode. Both studies have been published at national academic conferences. Furthermore, there is research titled “Small Solar Energy Shallow Water Well Pumping Demonstration System for Household Uses” aimed at helping community enterprises in reducing costs in the agricultural sectors in water management. As for the issue of observing, monitoring, and inspecting the health of aquatic ecosystems, the university has conducted research related to this. The examples of some research papers are “Species Diversity and Distribution of Macroalgae at Ao Yang Bay, Chanthaburi Province” and “Species Composition of Crustacea from Blue Swimming Crab Trap Fishing in Kung Krabaen Bay, Chanthaburi Province” which were published in national academic journals. Moreover, there is a dissemination of body of knowledge about crabs and corals from a Plant Genetic Conservation project under the Royal Initiation of Her Royal Highness Princess Maha Chakri Sirindhorn (RSPG) aimed at increasing the body of knowledge about marine resources.



Picture 2: Goal 14 Disseminating research knowledge and innovation about crabs and corals at the exhibition

Education

Rambhai Barni Rajabhat University has organized educational programs for people in the local areas to gain a body of knowledge about conversation and sustainable utilization of the oceans, seas and marine resources through events. For example, there was a project called “Strengthening the Power of Local Communities in Mangrove Forest Management” for people in the area, and a workshop activity called “Environmental Measurement and Promotion of Environmental Research Based on GLOBE’s Principles” for students in many schools in the eastern region. The university has been continually providing the academic service projects of the Blue Swimming Crab Banks, including giving education to promote fisheries management, aquaculture and sustainable water tourism to the fishing communities through 30 Blue Swimming Crab Bank learning centers set by the university in cooperation with the local communities. These have resulted in having a good stewardship practice about preserving and restoring Blue Swimming Crab resources. To support, encourage and maintain this, the good stewardship practice is spread continually throughout the communities by 30 Blue Swimming Crab Bank learning centers along the eastern coast. Another good stewardship practice is about conservation and restoration of corals. This practice has been supported and forwarded to another communities. The budget has been allocated to continue operations every year.



Picture 3: Goal 14 Providing a “GLOBE” science workshop activity at Satree Prasertsin School in Trat Province

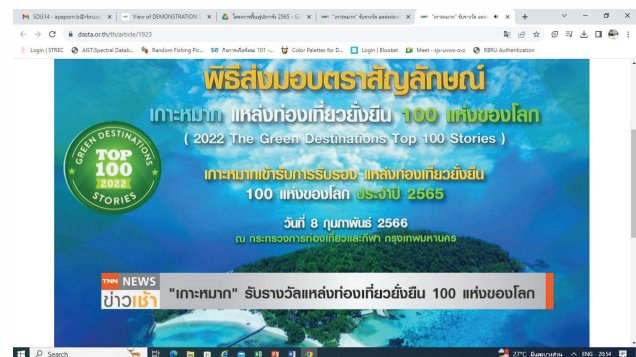


Picture 4: Goal 14 The successful results of the Blue Swimming Crab Banks based on the potential and readiness of the communities which can add economic and social value to the communities according to the BCG economy model

Participation in Local Areas

Rambhai Barni Rajabhat University has been continually cooperating with the local communities in investing and maintaining the shared aquatic ecosystems. The university collaborated and signed a Memorandum of Understanding (MOU) about maintaining and conserving aquatic ecosystems with the local communities. One of the important MOUs is about the coral restoration and coral planting with Vinythai Public Company Limited and the local communities. Under this MOU, the university has been continually operating by organizing the projects to promote the conservation and restoration of corals continuously in the eastern sea areas. For example, there were the coral planting and restoration activities around Koh Kood and Koh Mak, Koh Kood District, Trat Province to promote

low carbon tourism. The coral ecosystems that were degraded have fully recovered. These marine resources become habitats for various marine animals and also tourist attractions that generate income for the Koh Kood community. The Koh Kood community has received the award for outstanding Natural Resources and Environmental Protection Volunteer Network (NEV-Net) of the year 2021 from the Ministry of Natural Resources and Environment due to the fact that there are tourism activities which are environmentally friendly, and the Koh Mak community has received the award for one of the world's 100 sustainable tourist attractions of the year 2022 from the Ministry of Tourism and Sports. It also has been praised as a model island for tourism development.



Picture 6: Goal 14 Koh Mak has received the award for one of the world's 100 sustainable tourist attractions of the year 2022



Picture 5: Goal 14 Koh Kood has received the award for outstanding Natural Resources and Environmental Protection Volunteer Network (NEV-Net) of the year 2021





15

LIFE ON LAND



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

Policy and management

The university has policies and budget support for establishing areas of self-sufficiency learning centers, including rice cultivation, vegetable gardens, herbs, livestock, egg production, and fish farming, for use as a food source and for distribution within the university. The university integrates teaching with research in the course "H.M. King Bhumibol Adulyadej's Philosophy for Sustainable Development". Other activities include cultivating Ling Zhi mushrooms and Split Gill mushrooms, planting Cardamom, and growing medicinal herbs, all conducted within the framework of the Plant Genetic Conservation Project in the protected forest areas.



Picture 1: Goal 13 Self-Sufficiency Learning Centers Project of Rambhai Barni Rajabhat University



In addition, the university has a policy for the sustainable conservation, restoration, and utilization of land under the 7th 5-Year Master Plan of the Plant Genetic Conservation Project, Rambhai Barni Rajabhat University. This includes the conservation, restoration, and sustainable use of the university's 50-rai forest area, divided into three bases: physical, biological, and cultural resources. There is also the restoration of nearly extinct tree species planted and maintained within the conservation area.



Picture 2: Goal 15 Protected Forest Areas under the Plant Genetic Conservation Project of Rambhai Barni Rajabhat University

Moreover, the university follows the policies outlined in the Green University development plan and the Green University strategy. It implements projects such as the Green Cone Project of Rambhai Barni Rajabhat University and the waste bank project. The university also accepts, and pays for, waste plastic on the 2nd and 4th Wednesday such that it can be delivered to recycling centers. The progress of the Green University initiative is reported on the university's website.



Picture 3: Goal 15 Green Cone Project of Rambhai Barni Rajabhat University

Research and innovation

The university conserves and enhances the biological diversity of resources within the forest ecosystems by working directly to conserve and expand the biological diversity of both plants and animals. Specifically, this is done within endangered ecosystems, where there is a plant tissue laboratory conducting in vitro culture techniques and preserving native orchids and endemic plant species in an in vitro condition as well as the reintroduction of orchids into the forest, to contribute to the restoration of the forest ecosystem's biodiversity.



Picture 4: Goal 15 Plant Tissue Culture Laboratory of Rambhai Barni Rajabhat University

In addition, the university also has mushroom cultivation facilities for Ling Zhi and Split Gill mushrooms within the protected forest area. Knowledge about cultivation and propagation is shared among schools and local government organizations. Furthermore, there is a mushroom research laboratory to study and classify species using molecular techniques, and culturing development of mushrooms (*Schizophyllum commune*) in a greenhouse, and research findings are published internationally.



Picture 5: Goal 15 Research Studies on Molecular Techniques Based Mushroom Species Classification and Development of Split Gill Mushrooms (*Schizophyllum commune*) Culturing Techniques in a Greenhouse.

Education

The university conducts training programs on basic low-cost plant tissue culture techniques to enable trainees to propagate plants using simple tissue culture methods (at the national level). There are training courses on mushroom cultivation provided to schools and local government organizations (community-level) such as Kaeng Hang Maeo School, Samphoenong Subdistrict Administrative Organization, Khao Wong Kot Subdistrict Administrative Organization, and Phwa Subdistrict Administrative Organization (local communities). This includes training courses on surveying and collecting plant, animal, and microbial resources in the community forest ecosystem that has been conserved for the local community under the Local Resource Database Project and the Plant Genetic Conservation Project, Rambhai Barni Rajabhat University (local communities).



Picture 6: Goal 15 Low-Cost Plant Tissue Culture and Mushroom Cultivation Training Courses.

In addition, the university offers training courses in tourism and agriculture, such as courses on community-based tourism development, tourism route planning, and tourism programs, including agricultural tourism courses, orchards, and local fruit processing.



Picture 7: Goal 15 Training Courses in Tourism and Agriculture under U2T for BCG Project.

The university collaborates with local government organizations in carrying out local resource databases under the University's Plant Genetic Conservation Project. The project includes the survey of resources within the community's conservation area, the establishment of resource learning hiking routes, the cultivation and preservation of rare tree species, the creation of local resource databases, and the establishment of local resource learning centers. For example, there is the local resource database project of the Song Phi Nong Subdistrict Municipality,



Picture 8: Goal 15 Rambhai Barni Rajabhat University in Collaboration with the Local Government Organization for the Establishment of Local Resource Databases under the Plant Genetic Conservation Project of Rambhai Barni Rajabhat University, the Survey for Resources within the Community's Conservation Area, the Creation of Learning Hiking Routes, the Cultivation and Preservation of Rare Tree Species, and the Establishment of Local Resource Learning Centers of the Song Phi Nong Subdistrict Municipality



as well as the community forest resource transfer and sustainability management project in Chang Toon Village, conducted by the Office of Arts, Culture, and Community Development, Rambhai Barni Rajabhat University.



Picture 9: Goal 15 The Community Forest Resource Transfer and Sustainability Management Project in Chang Toon Village by the Office of Arts, Culture, and Community Development, Rambhai Barni Rajabhat University.

16 PEACE, JUSTICE AND STRONG INSTITUTIONS



Policy of not accepting gifts and presents of any kind in the performance of duties.

Rambhai Barni Rajabhat University announced the policy of not accepting cash gifts or gifts of any kind While performing duties. This is in line with the university's principles and commitments regarding corruption and bribery. This was promoted to create awareness for personnel to behave according to good ethics and be good role models, including preventing corruption or misconduct in the performance of duties or unintentional wrongdoing. In this regard, the guidelines for evaluating morality and transparency in the operations of government agencies of the National Anti-Corruption Commission (NACC) have been implemented continuously, to promote operations according to the principles of good governance. The university is always ready to provide opportunities for students, staff, and stakeholders to participate in the fight against corruption. There are channels to access justice and receive information.



Picture 1: Goal 16 Policy of not accepting gifts and presents of any kind in the performance of duties.

Promote and support the election of representatives of students, faculty, and staff.

Rambhai Barni Rajabhat University representatives of students, faculty, and non-faculty personnel are elected to promote and support social justice duties and exercise rights according to the rule of law in the democratic governance system. There is an annual election for both regular and special semester students to be president of the student organization. Student Council President and Student Club President. The positions of President of the Student Organization and President of the Student Council are parts of the University Affairs Committee. The Student Development Division selects student volunteers to organize student representative elections every academic year to allow students to participate in administration according to the principles of good governance.

In this regard, the Office of the President elections are held for representatives of faculty and personnel not affiliated with the faculty to serve on various committees such as the University Council, Academic Council, Faculty and Civil Service Council, and Human Resources Management Committee, etc.





performance of 44 clubs, in which 3,000 students participated in the project.



Picture 3: Goal 16 Student Union of Rambhai Barni Rajabhat University



Picture 2: Goal 16 Promote and support the election of representatives of students, faculty, and staff.

Student Union of Rambhai Barni Rajabhat University

Rambhai Barni Rajabhat University Regulations of Rambhai Barni Rajabhat University regarding student activities 2006 have been issued, which determine the composition and acquisition of student club committees in order to have a student club for carrying out the activities of each faculty's student club and encourage students to participate in various operations and activities. As well as allowing students to freely choose to become members of clubs that interest them. The membership is open for club membership every academic year.

On February 15, 2023, there was a project to showcase club work and the closing of clubs for the academic year 2022, which summarized the results of club creation and displayed the

Providing expert advice to the government

Our university provided academic services in collaboration with the Kajanurak Operations Center, Khao Chamao - Khao Wong National Park Rayong Province, Khao Ang Rue Nai Wildlife Sanctuary Chachoengsao Province, under the project "Ai-Yara, a system for detecting and warning elephants encroaching on agricultural land"

Using artificial intelligence technology, which notifies residents through the early warning system and LINE application. It uses technology to increase efficiency in filtering images to be clearer, including displaying notifications on the screen of each province and reporting the situation of wild elephants in each location.

Personnel under the Faculty of Computer Science and Information Technology, Rambhai Barni Rajabhat University are experts in hardware, software, and artificial intelligence technology. They worked with the advisory working group "Project to study innovative high-security CCTV systems of the Office of the Permanent Secretary for Defense" to provide advice and guidance to the working group under the contract of the Research and Development Fund for Broadcasting, Television and Telecommunications for the Public Interest (NBTC), under cooperation with the Office of Information Technology and Space, the Office of the Permanent Secretary for Defense supports security missions to maintain peace and order within the country and maintain stability in the area of responsibility (especially in the three southern border provinces).



Picture 4: Goal 16 The project "Ai-Yara, a system for detecting and warning elephants encroaching on agricultural land"

Participating in government research and organizing forums to openly discuss problems.

Rambhai Barni Rajabhat University has conducted policy research in collaboration with government agencies and provided a neutral platform for stakeholders to express different opinions and discuss problems openly together which is a collaboration with Chanthaburi Province Chanthaburi Provincial Police and the Patcharasutha Kajanurak Fund Project.

Our university held a forum to listen to the problems and needs of communities affected by wild elephants in Chanthaburi Province for the first time on August 14, 2022. 276 stakeholders participated in the project. The second forum was held on October 8, 2022, to brainstorm opinions and solutions to the wild elephant problem jointly between the government and public sectors. There was a group of volunteers pushing for wild elephants and leaders from affected community areas of 139 villages to join the forum to solve the problem of impacts from wild elephants and review information from the first forum.

The summary of the results of the discussion were to prioritize 4 solutions, including: (1) taking care of volunteer groups to track and push elephants, (2) changing degraded forest areas into useful forests to slow down the elephant problem, and (3) carrying weapons to protect volunteers from tracking and pushing elephants, and (4) develop a radar system to detect and locate wild elephants.



Picture 5: Goal 16 Participating in government research and organizing forums to openly discuss problems.



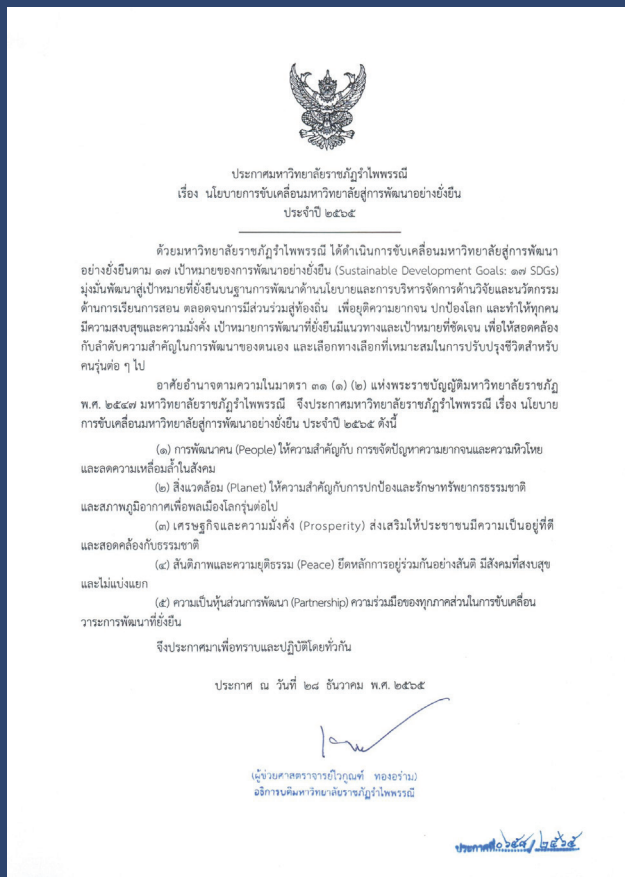
17 PARTNERSHIPS FOR THE GOALS



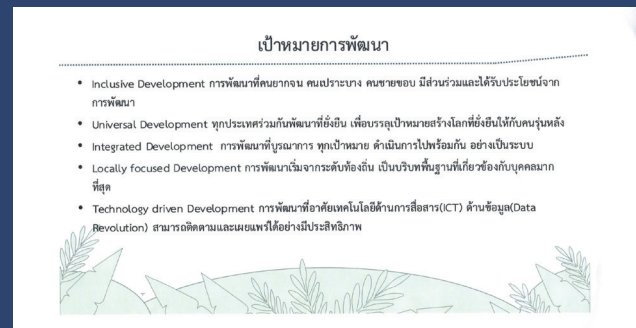
Sustainable Development Policy in 2022

Rambhai Barni Rajabhat University has been driving the university towards sustainable development in accordance with the 17 Sustainable Development Goals and determined to develop towards sustainable goals based on policy and management, research and innovation, teaching and community participation to alleviate poverty, protect the world, and make everyone peaceful, happy and prosperous. Sustainable development goals have clear directions and objectives to align with the priorities in their own development and choose the appropriate paths for better lives of

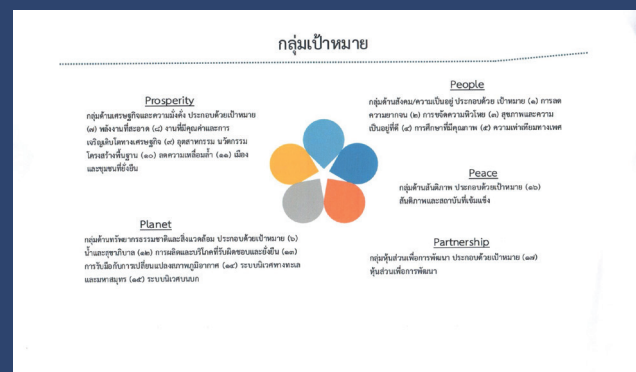
future generations. RBRU issued the announcement on the university sustainable development policy in the year 2022, including: 1) human development emphasizing no poverty, zero hunger, and reduced inequality, 2) environmental conservation prioritizing the protection and preservation of natural resources and climate actions for future generations, 3) economic and prosperity promoting a good quality of life for the public in harmony with nature, and 4) peace, justice and strong institutions, and 5) partnerships for the goals.



Picture 1: Goal 17 The University Announcement on Sustainable Development Driving Policies in 2022.



Picture 2: Goal 17 Sustainable development goals.



Picture 3: Goal 17 The target groups of sustainable development goals.



Collaboration with Communities through Research

Rambhai Barni Rajabhat University extended its research to sustainably develop learning resources for the restoration of blue swimming crabs to the ocean in Thailand. The university's researchers initiated the first phase of the research project from 2018 to 2021. In 2022, The second phase of the research project was conducted, "Knowledge Management to Strengthen Blue Swimming Crab Bank and Socio-Economy of the Coastal Community in Trat and Rayong Provinces". The National Research Council of Thailand (NRCT) and RBRU researchers collaborated with the communities and network partners to monitor, supervise, and promote the operations of six blue swimming crab banks established in Phase 1. Additionally, 10 more blue swimming crab banks were established. Two of the banks in Phase 1 became learning centers. Subsequently, the academic knowledge, research findings, and innovations would be transferred to the new blue swimming crab banks. This second phase project included evaluating the impact of blue swimming crab banks on stakeholders in the supply chain. Various activities will be organized to further promote the sustainability of the blue swimming crab banks, such as community tourism promotion, community product development, and expanding market channels for community products. The project also aimed to increase the survival rate of blue swimming crab offspring by identifying suitable release areas in Trat province."



Picture 4: Goal 17 Knowledge management to extend the results of blue swimming crab banks in the ocean in Eastern Thailand at the National Research Council of Thailand (NRCT).



Picture 5: Goal 17 Expansion of research results of swimming blue crab bank following the BCG Economy approach.



Picture 6: Goal 17 Strengthening and sustaining the newly established blue swimming crab banks and expanding the knowledge for developing products related to blue swimming crabs.

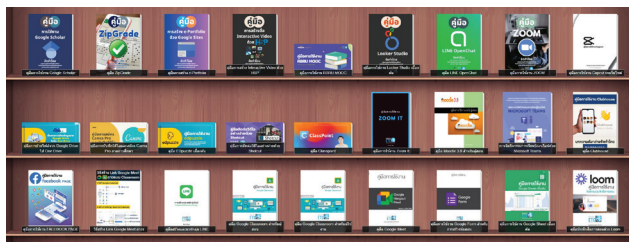
Educations for SDGs

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, 5, 7, 11, 13, 14, 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 Integrated Humanities, Green Citizen, and Psychology for Self Development, etc. The Master of Political Science Program in Governance and Sustainable Development also provides courses related to SDGs such as Politics of Sustainable Development, Green Politics and Ecological Political Theory, and Seminar on Human Rights and Sustainable Management, etc. 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 and short courses for students and the public to learn by themselves at any time at no charge via <https://mooc.rbru.ac.th>.



Picture 7: Goal 17 Life-long learning courses for students and the public RBRU MOOC.

Outreach for communities

Rambhai Barni Rajabhat University is a university dedicated to local development with a goal of sustainable development. It has collaborated with numerous organizations, particularly in promoting community well-being and elevating the local economy. The university has actively encouraged the creation of diverse products, supported community businesses, and established continuous marketing channels for the communities. In addition, the university has its own store that sells community products in collaboration with the university. Therefore, the university is actively involved in developing a collaborative network involving various sectors such as government, private, community, and civil society. This initiative aims to elevate the community's well-being through the creation of social enterprises (SE) because businesses, regardless of their form, cannot thrive without a supportive society. This aligns with the university's local development policies and current environmental and social issues. Organizations now emphasize the importance of the above issues, leading to the concept of the Triple Bottom Line, where management considers profit, environmental impact, and social responsibility simultaneously.

In addition, Rambhai Barni Rajabhat University has established Suan Ban Kao Community Business which serves as a social enterprise to act as a comprehensive link

between community producers and markets. This initiative operates in a network format involving all sectors of the community. The process begins with market research, examining the community's intellectual property and collaborating with community members to develop community products that maintain the uniqueness of the community's cultural identity. This includes enhancing both the quality and external appearance of the products. The initiative also focuses on increasing knowledge to strengthen the community's capabilities and establishing efficient distribution channels by developing a business platform. The generated revenue is reinvested in the community's potential for sustainable self-reliance.



Picture 8: Goal 17 Community product development using the Social Enterprise (SE) process to increase income for the public in the project under the brand Suan Ban Kao Community Business.



Picture 9: Goal 17 Community business management.



Picture 10 Goal 17 The award for the "Premium Herbal Products Sustainable" category of products under the Suan Ban Kao Community Business.



Additionally, elephant attacks have 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 Bajarasudha Kajanurak Foundation, the government sector, private sector and community leaders. Rambhai Barni Rajabhat University has developed a warning system to alert residents, with a 90% accuracy, to the presence of wild elephants by using artificial intelligence (AI). It is also possible for residents to be alerted to the presence of elephants via the online application Kanjanurak before the elephants cause damage in the area. Currently,

Kajanurak Conservation Operations Centers have been established at Khao Chamao-Khao Wong National Park in Rayong Province and the Wildlife Conservation Area of Khao Ang Rue Nai in Chachoengsao Province. Rambhai Barni Rajabhat University collaborates in developing and connecting an AI system that sends alerts through LINE application and the Smart Early Warning System application. These platforms allow users to view alert statuses and the locations of wild elephants through display screens for each province, along with reports on the elephant intrusions in real-time.



Picture 11: Goal 17 The survey of elephant movement for planning for the installation of sensors and providing an explanation of their functionality, along with the transmission of knowledge.



Picture 12: Goal 17 Fundraising for volunteers guarding residential areas from elephants and victims of elephant attacks.



SUSTAINABILITY REPORT

2022-2023

Advisors

Waigoon Tongaram, Asst. Prof.

Translators and Editors

Jakrapan Wongpa, Ph.D., Asst. Prof.
 Narongrit Suksawat, Ph.D.
 Udomlak Rapeesaeng, Ph.D., Asst. Prof.
 Pornchok Pechaya Usomboon, Ph.D., Asst. Prof.
 Thirawan Sriratanachotchai, Ph.D., Asst. Prof.
 Proyfon Tawichai, Asst. Prof.
 Kanokwan Yusawai, Asst. Prof.
 Taritsawan Buasrikham, Asst. Prof.
 Piyapan Meesuk, Asst. Prof.
 Kantithat Karncharoen, Asst. Prof.
 Winitchaya Wongchai, Lecturer
 Usa Wongpaisarn, Lecturer

Hathaichanok Inlop, Lecturer
 Wakun Junjajan, Lecturer
 Wuttinan Suporn, Lecturer
 Suwicha Thaworn, Lecturer
 Kanokwan Wareeket, Lecturer
 Mr. Richard Neill Winfield Jr, Lecturer
 Mr. Gareth William John Butt, Lecturer
 Auemporn Rungsiri, Lecturer
 Miss Wanida Jongdee
 Mrs. Pitchanan Suttisawat
 Miss Intra Borploy

Annual report designer

Puvadon Buabangplu, Ed.D, Asst. Prof., SM2
 Patcharin Buayen, Ph.D., Asst. Prof.
 Chuanpob laosanurak, Ph.D., Lecturer
 Sandusit Brorewongtrakhul, D.C.A, Lecturer
 Mr. Parinya Paradeeruchira
 Miss Ladda Cherdchomklin
 Mr. Krit Pattanapanich
 Miss Arisa Srichareon
 Miss Angkana Wutti
 Mr. Ekharin Sroisree
 Miss Ketsarin Tana

Mr. Akalak Sukhtunglok
 Mr. Somsak Nakchareon
 Mr. Noppadech Youprom
 Mr. Ronnapob Boonreang
 Mr. Pongnatee Silaart
 Miss Buppa Poompuenpol
 Mr. Atipong Korprasertsud
 Mrs. Jiamjit Boudthaisong
 Mr. Passakorn Insumang
 Mr. Surat Jantong
 Miss Janya Watcha



Contributors

Ekachai Kitkasachroen, Ph.D., Asst. Prof.
Ruangurai Wannako, Asst. Prof.
Weranud Satjasai, Lecturer
Mr. Kritsanapong Suwannachote
Mrs. Sirilak Chalernsuk
Mr. Pasit Limprayoon
Miss Supalak Ruamjit
Mr. Siwadon Wiriya
Miss Amara Inphung
Miss Bungon Promna
Miss Sasiwimon Mingmeechai
Miss Pronpun Clongkot
Mr. Angkarn Kamchan
Mr. Jirapong Putthasen
Supattra Raksaphort, Ph.D., Asst. Prof.
Miss Rujira Suda
Mr. Phansak Suttisawat
Miss Korrakot Chomduang
Miss Janyaporn Witthayarat
Mr. Tada Sriphom
Miss Titipron Duangthong

Preeyanan Sittijinda, Ph.D., Asst. Prof.
Loetchai Chit- Aree, Ph.D., Asst. Prof.
Waritchon Ninlanon, Ph.D., Assoc. Prof.
Duanrung Benjamas, Ph.D., Asst. Prof.
Sutisa Chaikul, Ph.D., Asst. Prof.
Kunlaporn Puttame , Asst. Prof.
Jiraporn Sawasdikarn, Asst. Prof.
Suporn Sangsuwan , Asst. Prof.
Napaporn Jitsatta , Asst. Prof.
Pornchai Luangvaree, Asst. Prof.
Pattharavadee Siriamnuaylap, Asst. Prof.
Uracha Wanich, Ph.D., Lecturer
Khanitta Ratprakhon, Lecturer
Narumon Apinansawat, Lecturer
Sorawee Thunyamada, Ph.D., Lecturer
Miss Runghana Nimittrakun
Miss Panida Marksook
Miss Supaporn Bourkangbung

Wayakorn Udompoch, Ph.D., Assist. Prof.
Wannee Deoisres, Ph.D., Assoc. Prof.
Sasinaporn Lohitthai, Assistant Prof.
Dr. Thitavan Hongitiyanon, Lecturer
Kanyapat Niyomwit, Lecturer
Jureeporn Jaroenpong, Lecturer
Surisa Panthongchai, Lecturer
Phakwarin Phattharasirisomboon, Lecturer
Khemant ripromphut, Lecturer
Mrs. Siripan Pasuhirun
Miss Ponpat Wongsakul
Miss Pawinee Chantharungsee

Sawatchai Sripanomtanakorn, Ph.D., Asst. Prof.
Wiwat Petsri, Ph.D., Asst. Prof.
Yaowaree Chaiyen, Ph.D., Asst. Prof.
Dechawut Wanichsan, 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
Piyapong Kupongpan, Ph.D., Asst. Prof.
Mr. Apinan Kankeng
Miss Atchara Boongoy

Naknimit Akkasriworn, Ph.D., Assoc. Prof.
Phuriphat Kaewtatanawattana, Ph.D., Lecturer
Chamroen Kangkhasri, Ph.D., Asst. Prof.
Danai Chotisang, Lecturer
Mrs. Nisakorn Yindeechan, Ph.D., Lecturer
Sandusit Brorewongtrakhul, D.C.A., Lecturer
Apiwan Sirinantana, Ph.D., Assoc. Prof.
Muanfun Kongsomsawaeng, Ph.D., Lecturer
Sompong Sengmanee, Ph.D., Lecturer
Patipan Kittinanthawant, Lecturer
Wikhanesuan Tagong, M.A., Asst. Prof.
Tommy Jensen, Lecturer
Sariyapa Kantawan, Ph.D., Lecturer
Jaray Thuenphuangkaew, Lecturer
Maythaya Preeyanon, Ph.D., Lecturer
Mr. Chalermwuth Tongseeda
Miss Pimnapat Maytachaiyasit
Miss Darunee Palakan
Miss Budsabong Kerativasin
Miss Ratchanok Patnimit

Panya Wongtai , Asst. Prof
Chaiyathawat Boonyong, Asst. Prof.
Prapan Leekul, D.Eng., Asst. Prof.
Kriangkrai treerittiwitaya, Asst. Prof.
Sarayut Chitphutthanakul, Asst. Prof.
Kritsana Chantasit Asst. Prof.
Kittiya Kerdphon, Asst. Prof.
Benjamas Netiworaruksa, Ph.D., Lecturer
Anurak Rodbumrung, Ph.D., Lecturer
Witawat Singsang, Ph.D., Lecturer
Surapong Panyata, Ph.D., Lecturer
Narumon Lertcumfu, Ph.D., Lecturer
Kritiyaporn Kunsook , Lecturer
Artit Kamtai, Lecturer
Poramintra Wongcharoen, Lecturer
Kornpaphop Ruttanawijit, Lecturer
Thanat Jensanyayut, Lecturer
Dounmanee Thongkum Asst. Prof.
Mr. Anekchai Rasriku
Mr. Prapruet Chailerk

Jakrapan Wongpa, Ph.D., Asst. Prof.
Warin Supaporn, Asst. Prof.
Puvadon Buabangplu, Ed.D, Asst. Prof., SM2
Patcharin Buayen, Ph.D., Asst. Prof.
Chuanpob laosanurak, Ph.D., Lecturer
Sandusit Brorewongtrakhul, D.C.A., Lecturer
Chatshavan Maksin, Lecturer
Porntiwa Archeewa, Ph.D., Lecturer
Miss Ladda Cherdchomklin
Mr. Krit Pattanapanich
Miss Arisa Srichareon
Mr. Piyawat Wetchakaree



Mr. Parinya Paradeeruchira
 Miss Ponpin Tinnakorn
 Mr. Passakorn Insumang
 Mr. Arun Phatosot

Wichaladda Aunsa-ard, Asst. Prof.
 Attakorn khamchutra Asst Prof
 Chawanrat Somnuek, Ph.D., Asst. Prof.
 Hirun Hirunrattanapong, Ph.D., Asst. Prof.
 Jakkapan Potipat, Ph.D., Asst. Prof.
 Chewa Thassana, Ph.D., Asst. Prof.
 Aeknarin Thanakitpairin, Asst. Prof.
 Sookpichaya Charrunchon, Lecturer
 Mr. Supat Kittivongruksa
 Mr. Panuwong Mekpaiboon
 Mr. Pichai Laosriwichit
 Miss Alisara Piromruen
 Miss Jiranan Niyomna

Apaporn Boonmee, Ph.D., Asst. Prof.
 Sontaya Koolkalya, Ph.D., Asst. Prof.
 Kumpee Teeravech, Ph.D., Asst. Prof.
 Yadrung Suwannarat, Ph.D., Asst. Prof.
 Sarawut Sangsawangchote, Ph.D., Asst. Prof.
 Umarin Matchakuea, Asst. Prof.
 Araya Daengroj, Asst. Prof.
 Sutthinee Mekprayoon, Ph.D., Lecturer
 Sitang Chareanwong, Ph.D., Lecturer
 Mr. Yotin Chapchalearn
 Miss Orapin Phimdee

Suttinun Sotwitee, Asst. Prof.
 Chutapa Kunsook, Ph.D., Asst. Prof.
 Lita Somboon, Ph.D., Asst. Prof.
 Na-monrug Khamchatra, Ph.D., Asst. Prof.
 Sutisa Chaikul, Ph.D., Asst. Prof.
 Pornpan Sukhumpinij, Ph.D., Asst. Prof.
 Phikun Nuchnuanrat, Ph.D., Asst. Prof.
 Wikanya Prathumyot, Ph.D., Asst. Prof.
 Watcharawit Rassami, Ph.D., Asst. Prof.
 Kanisorn Lommetta, Asst. Prof.
 Saowapha Surawut, Ph.D.
 Sorawee Thunyamada, Ph.D.
 Sasithorn Bhudharak, Lecturer
 Miss Nattaya Thawilwong
 Miss Suwaree Sinlapa
 Miss Chayachol Moolmanee

Nakrob Tianam, Ph.D., Asst. Prof.
 Mr. Subphayasit Kirdnaimongkol
 Chowong Ubalee, Ph.D., Asst. Prof.
 Chetnarat Orachun, Ph.D., Asst. Prof.
 Ussawin Kaewpitak, Ph.D., Lecturer
 Puvadol Damsanit, Ph.D., Lecturer
 Visitsak Nueangnong, Ph.D., Lecturer
 Miss Kannika Suksamai
 Miss Nittaya Tonsai
 Miss Chomchan Raksaphrot
 Miss Sasikorn Issarangkul Na Ayutthaya
 Miss Benjawan Wansanor

Sinat Koslanant, Ph.D., Asst. Prof.
 Songsak Mimgratok, Ph.D., Assoc. Prof.
 Lecturer Pattara Srisrual
 Miss Kanchana Treerat
 Miss Kuntima Puttasad
 Miss Pornpimon Rattanaojanakul
 Acting Sub Lt. Kamoltip Sattaboot





The University for Local Community Development



RAMBHAI BARNI RAJABHAT UNIVERSITY

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

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

Email : saraban@rbru.ac.th