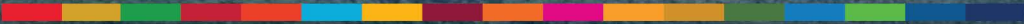




RAJAMANGALA UNIVERSITY OF TECHNOLOGY LANNA



SUSTAINABILITY REPORT 2024

SUSTAINABLE
DEVELOPMENT GOALS

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*"Leading University of Technology and Innovation
for Sustainable Communities"*



MESSAGE FROM THE PRESIDENT

Rajamangala University of Technology Lanna is dedicated to supporting the United Nations Sustainable Development Goals (SDGs) by embedding sustainable practices across our educational programs, community outreach, and technological innovation. With a mission to serve as a career-focused, technology-driven institution, RMUTL aims to cultivate graduates equipped with practical skills and a commitment to fostering sustainable progress within their communities. This focus directly contributes to key SDGs, especially those centered on quality education, sustainable communities, climate action, and innovation, ensuring our work benefits both local and national growth.

RMUTL's comprehensive approach integrates four core areas: Research and Academic Services, Human Resource Development (HRD) and Management (HRM), Teaching and Learning, and Policy and Governance. Through these pillars, we work toward creating a sustainable and resilient society, positioning RMUTL as a leader in practical education that directly benefits Thailand's communities.

Our Research and Academic Services focus on impactful projects like the Nan Sandbox, a regional initiative that encourages sustainable, community-specific practices in line with SDG 11 (Sustainable Cities and Communities). Additionally, our Disaster Management Center addresses urgent environmental issues, including air pollution, flooding, and earthquake resilience, directly contributing to SDG 13 (Climate Action) by preparing local communities for environmental challenges.

In Teaching and Learning, we embed sustainability into our curriculum, ensuring students gain skills relevant to green jobs and sustainable technology. This approach supports SDG 4 (Quality Education) by empowering students with the knowledge to contribute meaningfully to their communities. Programs like Art & Tech Venture and Creative Lanna combine

cultural heritage with technological innovation, fostering creativity while enhancing community sustainability.

Our HRD and HRM strategies focus on developing skilled personnel aligned with national workforce needs, fostering employment opportunities that contribute to economic growth (SDG 8 – Decent Work and Economic Growth). Additionally, RMUTL's policy and governance emphasize the principles of ESG (Environmental, Social, and Governance) and carbon neutrality. By enacting policies that promote energy efficiency, responsible use of resources, and sustainable practices, we advance SDG 12 (Responsible Consumption and Production) and set an example of institutional responsibility.

RMUTL's commitment to "Building People, Building Work, Building Society" makes sustainable development an integral part of our identity. We continuously strive to be a "pillar of society," addressing critical issues through research, practical solutions, and partnerships. RMUTL's initiatives align with the global journey toward a sustainable future, creating positive change locally and inspiring broader, long-lasting impacts on Thailand's path toward sustainable development.



Assoc. Prof. Wichet Thipprasert
Acting President



The President
Rajamangala University of Technology Lanna (RMUTL)
Assoc.Prof.Wichet Thipprasert

MESSAGE FROM ADVISOR TO THE PRESIDENT

At Rajamangala University of Technology Lanna (RMUTL), we are deeply committed to advancing the United Nations Sustainable Development Goals (SDGs) through an integrated approach that aligns with our core mission. By prioritizing the principles of ESG (Environmental, Social, and Governance) and striving toward Carbon Neutrality, RMUTL seeks to drive meaningful change, support sustainable growth, and contribute to a brighter future for our community, nation, and the world.

As a member of Group 2 universities, RMUTL focuses on technology development, innovation promotion, and the nurturing of a workforce tailored to meet national needs. Our unique position, with campuses situated in provincial areas, underscores the importance of integrating the concepts of SDGs, ESG, and Carbon Neutrality into every facet of our work. These principles serve as the foundation of our four-pillar mission for the comprehensive reform of RMUTL. This mission includes (1) Research and Academic Services, (2) Teaching and Human Resource Development, (3) Human Resources Management (HRD and HRM), and (4) Policy and Governance.

In Research and Academic Services, our projects aim to make a tangible difference in areas critical to our society and environment. Initiatives such as the Nan Sandbox, a platform for sustainable development tailored to our region, the establishment of a Disaster Management Center focused on air pollution, water crises, and earthquakes, and the Art & Tech Venture and Creative Lanna projects are just a few examples of how RMUTL is making strides. These efforts highlight our commitment to addressing pressing environmental and social challenges, all while advancing innovation and community resilience.

In Teaching and Human Resource Development, we equip students with the skills and knowledge necessary to navigate and excel in an increasingly green and technology-driven job market. RMUTL is not only training a new generation of professionals but also instilling a sense of responsibility towards sustainability and community well-being.

In terms of governance and policy, we are committed to enacting regulations that support energy efficiency, sustainable material usage, and adherence to ESG standards. By doing so, RMUTL is positioning itself as a leader in institutional transformation, focused on carbon neutrality and ethical stewardship.

Through our commitment to SDGs, ESG, and Carbon Neutrality, RMUTL aims to be a game-changer, not only in education but also in sustainable development. **Together, we will continue to create a positive impact on society, inspire innovation, and contribute meaningfully to the global journey toward a sustainable future.**

A blue ink signature of Assoc. Prof. Dr. Uthen Kamnarn is written above the name.

Assoc.Prof.Dr.Uthen Kamnarn
Advisor to the President



Advisor to the President
Rajamangala University of Technology Lanna (RMUTL)

Assoc.Prof.Dr.Uthen Kamnarn



RAJAMANGALA UNIVERSITY OF TECHNOLOGY LANNA



REGIONAL LEARNING THEMES & SUSTAINABLE IDENTITIES



Philosophy:

“Leading University of Technology and Innovation for Sustainable Communities”



Vision:

RMUTL aims to become a university of technology and innovation that promotes sustainable community advancement by 2027.



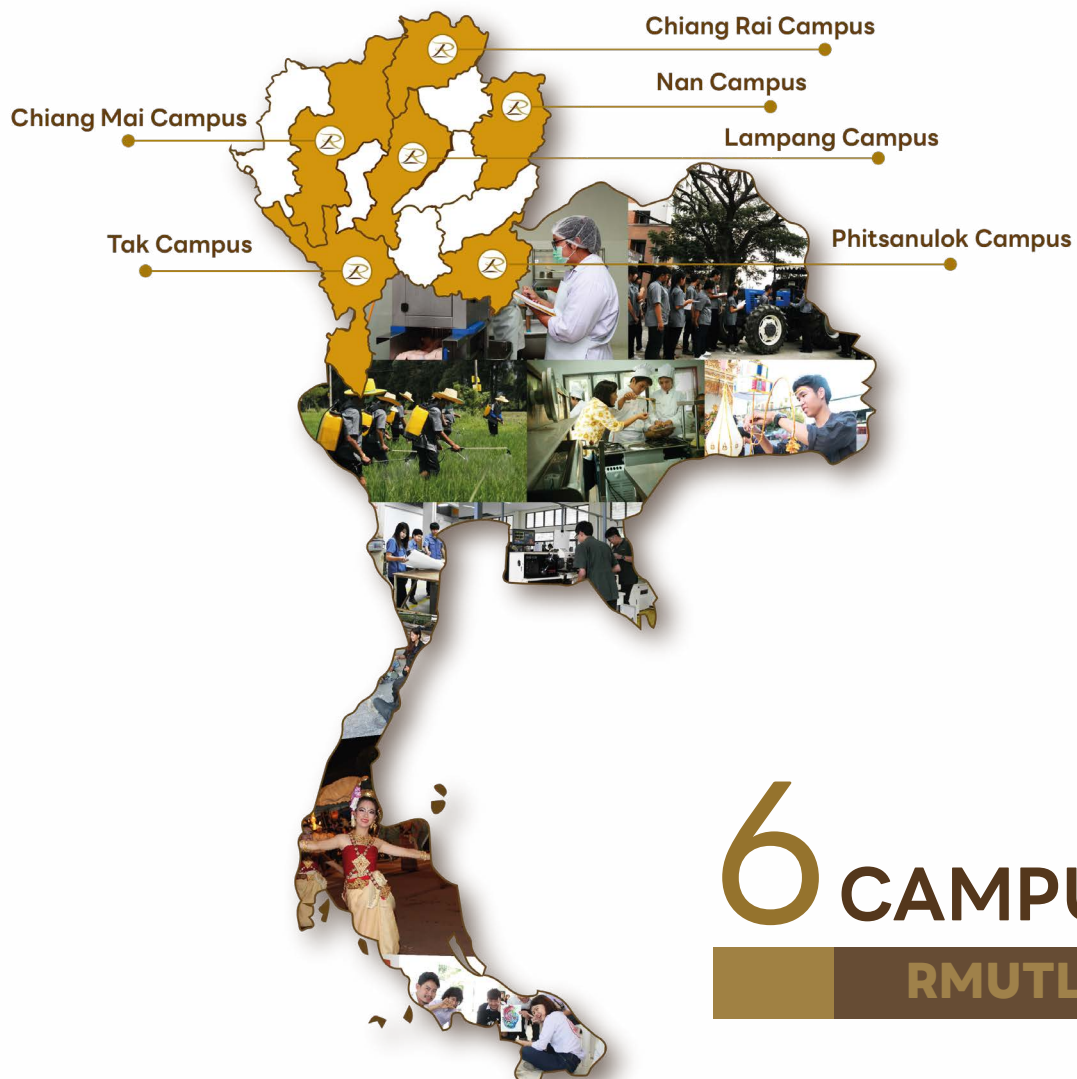
Core Values (R.M.U.T.L):

Responsibility – Morality – Unity – Technology
– Learning Society (Social Engagement)



Mission:

- 1 Provide practical higher education aligned with 21st-century skills.
- 2 Promote applied research and innovation for community benefit.
- 3 Build a learning organization with good governance.
- 4 Follow the Sufficiency Economy Philosophy and royal initiatives.
- 5 Preserve arts, culture, and environment.



6 CAMPUSES
RMUTL MAP



TECHNOLOGY & INNOVATION FOR SUSTAINABLE COMMUNITIES

Located in the heart of Northern Thailand, Chiang Mai Campus benefits from its strong industrial base, vibrant innovation ecosystem, and role as the region's educational and technological hub. As RMUTL's flagship campus, it leads the university's identity in Technology and Innovation, aligning with SDG 9 (Innovation and Infrastructure), SDG 11 (Sustainable Cities and Communities), and SDG 17 (Partnerships for the Goals).

2024 Highlight Project:

The Green University Innovation Challenge introduced the "Turn Trash into Treasure" initiative in partnership with AIS and PTT GC, transforming plastic waste into reusable materials. Over 10 tons of plastic were diverted from landfills, engaging more than 3,000 participants.

Sustainability Goals:

By 2030, Chiang Mai Campus will evolve into a Zero-Waste and Smart Energy Campus, featuring:

1. A waste-to-energy demonstration lab.
2. Renewable microgrid systems across all faculties.
3. A living-lab network integrating student research and community innovation for sustainable technology solutions.





BUSINESS MANAGEMENT FOR SUSTAINABLE DEVELOPMENT

Situated in Thailand's northernmost province and a key gateway to the Greater Mekong Subregion, Chiang Rai Campus leverages its cross-border economic advantage, rich cultural diversity, and entrepreneurial ecosystem. The campus defines its regional identity through Business Management and Entrepreneurship as a driving force for community-based sustainable growth. Anchored in SDG 8 (Decent Work and Economic Growth) and

SDG 9 (Industry, Innovation and Infrastructure), the campus integrates applied business knowledge with real-world rural enterprise solutions.

2024 Highlight Project:

The Smart Local Enterprise Incubator (SLEI) supported start-ups and community enterprises to adopt digital tools for marketing, financial literacy, and green business models. More than 60 entrepreneurs participated, achieving 25% revenue growth while reducing waste through circular practices.

Sustainability Goals:

By 2030, Chiang Rai aims to become a Regional Hub for Sustainable Business Management and Social Enterprise, with a roadmap that includes:

1. Establishing an SDG Business School focusing on social innovation and circular economy.
2. Partnering with ASEAN border provinces for SME cross-border learning.
3. Implementing carbon accounting in student-led entrepreneurship curricula.





AGRO-INDUSTRY AND BIO-CIRCULAR ECONOMY

Nestled in a province renowned for its ceramics industry, agricultural productivity, and logistics connectivity, Lampang Campus embodies RMUTL's agro-industrial expertise. The campus focuses on sustainable food production and processing systems, linking agriculture with clean technology. Its core SDGs include SDG 2 (Zero Hunger), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action).

2024 Highlight Project :

The Sustainable Ceramic and Agro-Processing Cluster introduced cleaner production technologies and energy recovery systems, reducing fossil fuel use by 30%. It also linked agricultural by-products with industrial design for new bio-materials.

Sustainability Goals :

By 2030, Lampang aims to be the Center of Excellence in Sustainable Agro-Industry, focusing on :

1. Expanding agro-processing research linked with local SMEs.
2. Training programs for low-carbon and bio-packaging industries.
3. Circular economy certification for partner enterprises.





INDUSTRIAL TECHNOLOGY AND WORKFORCE DEVELOPMENT

Located along Thailand's western border with Myanmar, Tak Campus holds a strategic advantage in cross-border trade, logistics, and industrial workforce mobility. It represents RMUTL's vital role in industrial technology and workforce development, connecting education, regional cooperation, and applied innovation. Its sustainability framework emphasizes SDG 4 (Quality Education), SDG 8 (Decent Work), and SDG 9 (Innovation).

2024 Highlight Project:

The Industrial Skills Enhancement Program (ISEP) upskilled 500 local workers and technicians in smart manufacturing, automation, and digital maintenance. Collaboration with Thai-Myanmar SMEs increased industrial efficiency and reduced energy consumption by 15%.

Sustainability Goals:

The campus envisions a Cross-Border Industrial Technology Institute by 2030, with plans to :

1. Launch bilingual industrial technology programs (Thai-Myanmar).
2. Develop Industry 4.0 demonstration factories for SMEs.
3. Integrate green manufacturing standards across all training curricula.





CULTURAL DIVERSITY AND CREATIVE LANNA HERITAGE

Located in a mountainous province rich in ethnic diversity, natural heritage, and traditional craftsmanship, Nan Campus defines its regional identity through cultural diversity and heritage sustainability. It aligns with SDG 11 (Sustainable Communities), SDG 15 (Life on Land), and SDG 4 (Inclusive Education).

2024 Highlight Project:

The Lanna Cultural Innovation Project preserved ethnic crafts through digital documentation, 3D-scanning of traditional art, and youth workshops in creative product design. The project connected indigenous knowledge with sustainable tourism and local creative industries.



Sustainability Goals:

By 2030, Nan Campus aims to be recognized as a Lanna Cultural Heritage Learning Hub, focusing on:

1. Digital archives of ethnic arts and wisdom.
2. Eco-tourism curriculum promoting community resilience.
3. Cross-generational design incubators linking culture and innovation.



SAFE AGRICULTURE AND SUSTAINABLE FOOD SYSTEMS

Strategically located in the Lower Northern region, Phitsanulok Campus benefits from its fertile agricultural zones, advanced logistics, and academic partnerships in food science and biotechnology. It promotes Safe and Smart Agriculture, aligning with SDG 2 (Zero Hunger), SDG 3 (Good Health and Well-being), and SDG 12 (Responsible Production). The campus plays a vital role in transforming local agriculture through technology, safety standards, and climate resilience.

2024 Highlight Project:

The Smart Safe AgriTech Initiative established precision-farming plots using IoT sensors and organic safety protocols, improving yields by 20% while reducing chemical use by 40%.

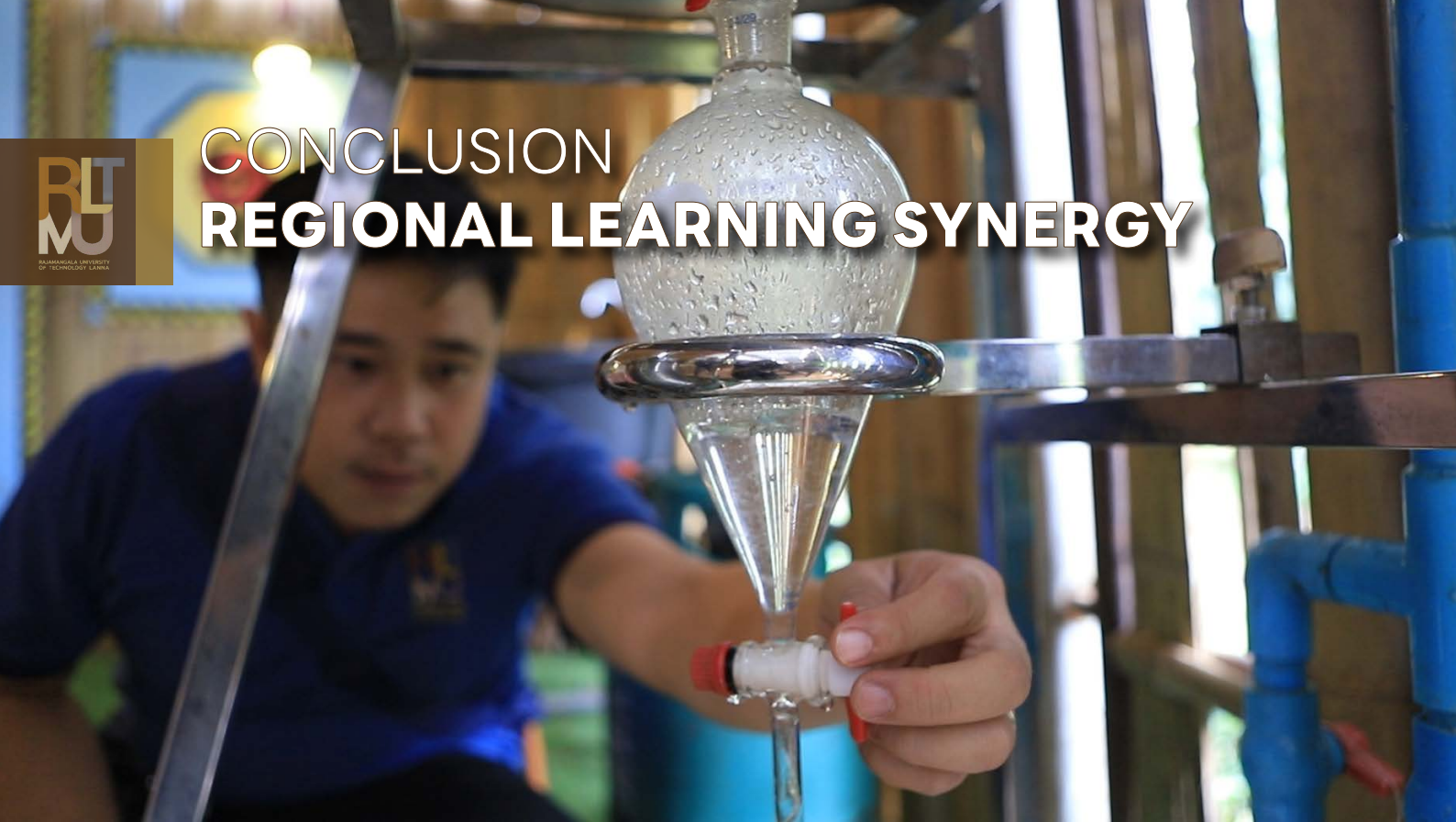
Sustainability Goals:

Phitsanulok Campus plans to achieve Regional Leadership in Safe Agriculture by 2030, emphasizing:

1. Full transition to organic-certified demonstration farms.
2. Integration of AI-based risk monitoring for food safety.
3. Regional training programs for sustainable and resilient food systems.



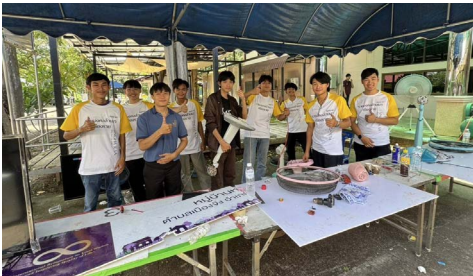
CONCLUSION REGIONAL LEARNING SYNERGY



“

To be a leading university of technology and innovation producing professional practitioners **to uplift the quality of life of local and global communities sustainably.**

”



RMUTL's six campuses
collectively embody the principle of

**“Innovation for
Sustainable
Communities”**

— each site serving as a regional learning hub that connects people, knowledge, and sustainable solutions. Together, they represent a living model of the university's 2030 vision:



SUSTAINABLE DEVELOPMENT GOALS

**RMUTL IS COMMITTED
TO ACHIEVING
17 GOALS
TO TRANSFORM OUR WORLD**





No Poverty

“The University shall neither refuse admission to any person nor terminate or suspend the studies of any student solely on the grounds that such person lacks the financial means to pay tuition fees or other fees to the University.”

— Section 11, Chapter 1 (General Provisions),
Rajamangala University of Technology Act, B.E. 2548
(2005)

RMUTL upholds the fundamental principles and practices of educational administration that promote participation in poverty alleviation. The University recognizes its crucial role as part of the social mechanism contributing to the stabilization and well-being of society through multiple dimensions — particularly in contexts that aim to prevent, alleviate, and eradicate poverty. This commitment is realized through the provision and creation of educational opportunities and the enhancement of quality of life for individuals and groups confronting poverty and inequality, including underprivileged or marginalized populations within the country, as well as migrants and political refugees from neighboring developing countries seeking better living conditions in Thailand.

Owing to its geographical advantage and the strategic locations of its six campuses across six northern provinces of Thailand, RMUTL occupies a significant position along the Northern Economic Corridor (NEC–CNX). Four of these campuses — in Chiang Mai, Nan, Tak, and Chiang Rai — are situated in key border provinces and trade gateways connecting Thailand with Myanmar, Lao PDR, and China. This geographical factor has made the region a major route for migration, political asylum, and both legal and illegal cross-border labor mobility by people seeking improved opportunities in Thailand. Consequently, these movements directly affect the educational management areas under RMUTL’s jurisdiction.

In response to this area-based context, RMUTL has adapted its roles and developed open and inclusive strategies, such as establishing funds and welfare programs to support vulnerable

populations and implementing humanitarian assistance projects. These efforts are designed to address the growing presence of migrants, refugees, stateless persons, ethnic minorities, and marginalized groups residing along the Thai–Myanmar and Thai–Lao borders, particularly among youth, who represent a group with high vulnerability to social exclusion, limited rights, and various forms of discrimination or violation.

The University’s initiatives aim to provide equitable access to quality education, vocational and professional skill training, and opportunities for future-oriented employment. Furthermore, RMUTL ensures that financially disadvantaged students can access social welfare and security benefits to which all individuals are entitled equally. Such mechanisms contribute to a holistic approach to poverty mitigation and eradication within the University’s areas of responsibility — areas that are culturally diverse, economically interconnected, and socially dynamic.

These endeavors reflect the University’s determination and devotion to lifting the impoverished out of deprivation and hardship, restoring dignity, and fostering sustainable livelihoods under the shelter of the “RMUTL Family.” RMUTL strives to cultivate a supportive ecosystem through concrete social protection policies, social measures, and proactive implementation for the enhancement of social well-being.

Across all six campuses, RMUTL provides not only quality education and moral development but also opportunities for social learning, vocational training, part-time employment, and financial assistance. These include diverse funding sources for both normal and emergency situations, free clean drinking water, continuous “Sharing Food Cabinets” initiatives, affordable meal services, various housing options, and comprehensive health and accident insurance — all of which are considered social investments. Additionally, the University allocates development budgets to expand access to modern learning technologies, communication networks, and lifelong learning resources that are fully open to the community and the public.

1.1 Measures and Supportive Guidelines for Poverty Alleviation at All Levels

Over the past two decades, the northern region of Thailand has continuously faced unpredictable and unpreventable natural disasters, occurring with increasing frequency. Consequently, it has become imperative for RMUTL to establish proactive support measures—particularly for students—to address potential short-term, medium-term, or long-term poverty or hardship arising suddenly from such crises.

In this regard, RMUTL has issued the “Announcement on Financial Assistance for Students Affected by Natural Disasters or Severe Emergencies Impacting Daily Life, B.E. 2567 (2024)” as one of its key relief and support measures. Under this policy, students whose parents or guardians experience disaster-related damages—such as fire, flood, storm, or earthquake—are eligible to receive up to 20,000 Baht in financial assistance.

The classification of poverty into three stages (short-term, medium-term, and long-term) enables more effective and targeted support interventions. For instance, during the recurrent floods in 2024, a significant number of student families were directly affected—losing homes, vehicles, and property. Many others, whose families rely on agriculture, suffered extensive crop losses, resulting in severe hardship. Such sudden crises typically cause short-term poverty, as accumulated life assets are abruptly destroyed. In these cases, the provision of a timely and sufficient lump-sum grant serves not only as financial relief but also as psychological encouragement, enabling families to meet immediate needs—such as food and water—while awaiting additional public or private assistance.

Additionally, RMUTL administers and coordinates various student financial aid mechanisms, including the Student Loan Fund (SLF), the Equitable Education Fund (EEF), as well as internal and external scholarship programs. These mechanisms are integral to the University's strategic framework for combating poverty in all its forms and across all educational areas.

Students facing poverty—whether short-term, medium-term, or long-term—may apply for financial support either through non-repayable grants or low-interest loans, which are repayable only after two years of employment following graduation, in accordance with individual career choices.

However, students experiencing chronic or intergenerational poverty, whose living conditions align with the criteria of the Equitable Education Fund or similar grant-based programs, should primarily receive non-repayable aid, as debt accumulation could further deepen their psychological and financial distress.

In contrast, many applicants for the Student Loan Fund utilize it as a financial safeguard, as their families, guardians, or even the students themselves—who often work part-time for subsistence—face unstable or insufficient income. Such cases correspond to the definition and risk profile of medium-term poverty, wherein access to affordable credit plays a preventive and stabilizing role.



ประกาศมหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา
เรื่อง การจ่ายเงินช่วยเหลือนักศึกษาที่มีความเดือดร้อนจากภัยพิบัติหรือมีเหตุฉุกเฉิน
ที่กระทบต่อการดำเนินชีวิตอย่างรุนแรง
พ.ศ. ๒๕๖๗

โดยที่เป็นการสมควรให้มีหลักเกณฑ์และวิธีการจ่ายเงินช่วยเหลือนักศึกษาที่มีความเดือดร้อนจากภัยพิบัติหรือมีเหตุฉุกเฉินที่กระทบต่อการดำเนินชีวิตอย่างรุนแรง

อาศัยอำนาจตามข้อ ๑๓.๓ ของระเบียบมหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา ว่าด้วยกองทุนพัฒนานักศึกษา พ.ศ. ๒๕๖๖ และมติคณะกรรมการกองทุนพัฒนานักศึกษา ในการประชุมครั้งที่ ๑/๒๕๖๗ เมื่อวันที่ ๙ มกราคม ๒๕๖๗ จึงออกประกาศไว้ดังนี้

ข้อ ๑ ประกาศนี้เรียกว่า “ประกาศมหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา เรื่องการจ่ายเงินช่วยเหลือนักศึกษาที่มีความเดือดร้อนจากภัยพิบัติหรือมีเหตุฉุกเฉินที่กระทบต่อการดำเนินชีวิตอย่างรุนแรง พ.ศ. ๒๕๖๗”

ข้อ ๒ ประกาศนี้ให้ผลบังคับใช้ตั้งแต่วันประกาศเป็นต้นไป

ข้อ ๓ อัตราการจ่ายเงินช่วยเหลือนักศึกษาที่มีความเดือดร้อนจากภัยพิบัติหรือมีเหตุฉุกเฉินที่กระทบต่อการดำเนินชีวิตอย่างรุนแรง ให้จ่ายตามอัตราดังนี้

(๑) ที่อยู่อาศัยของบิดา มารดา ที่เป็นผู้ปกครองของนักศึกษาประสบอัคคีภัย อุทกภัย วาตภัย และแผ่นดินไหว ให้ได้รับเงินช่วยเหลืออัตราไม่เกิน ๒๐,๐๐๐ บาท

(๒) กรณีอื่น ๆ ตามที่คณะกรรมการกองทุนพัฒนานักศึกษาเห็นสมควร โดยให้เสนอเป็นรายการ

ข้อ ๔ การจ่ายเงินช่วยเหลืออื่นใดเพิ่มเติมที่จะเป็นประโยชน์หรือช่วยเหลือเยี่ยวยานักศึกษาก่อนประกาศนี้มีผลบังคับใช้ ให้เป็นไปตามที่คณะกรรมการกองทุนพัฒนานักศึกษาเห็นสมควร

ข้อ ๕ ให้ถือการบันทึกการอนุมัติการเบิกจ่ายเงินช่วยเหลือตามประกาศนี้

ประกาศ ณ วันที่ ๙ มกราคม พ.ศ. ๒๕๖๗

(ผู้ช่วยศาสตราจารย์จิตต์ฤทธิ์ ทองปรอน)

รักษาราชการแทน

อธิการบดีมหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา

No Poverty

1.2 The 2024 Crisis: “Massive Floods, Mudslides, and Earthquakes” — A Blow that Deepens Poverty and the University’s Regional Relief Mission

Poverty alone is already a severe burden for anyone to bear, and for youth in particular, poverty represents a major barrier to accessing opportunities—whether in quality of life, education, employment, or equality—each of which shapes one’s future trajectory.

Throughout the year 2024, northern Thailand faced a series of catastrophic natural disasters and human-induced crises, including the PM 2.5 smog crisis, major floods, mudslides, and earthquakes, which struck repeatedly and severely. The impacts spread across multiple dimensions, devastating communities, youth, and families who were already poor. For many, these disasters were not only physical hardships but also compounded misfortunes—making survival alone a struggle.



Satellite imagery analysis revealed that, in 2024, Thailand experienced flooding over approximately 9,952 square kilometers, affecting 57 provinces, 454 districts, and 2,601 subdistricts. In the northern region, during September–October 2024, two major waves of flooding inundated approximately 3,808 square kilometers across 14 provinces and 111 districts, including Phitsanulok, Phichit, Sukhothai, Chiang Rai, Phayao, Chiang Mai, Phetchabun, Tak, Lamphun, Nan, Uttaradit, Lampang, Kamphaeng Phet, and Phrae.

Among these, six provinces—Phitsanulok, Chiang Rai, Chiang Mai, Tak, Nan, and Lampang—constitute RMUTL’s main educational areas. Phitsanulok Province experienced the most extensive flooding, with 759.9 square kilometers submerged, while Chiang Rai suffered a severe mudslide, where massive quantities of mud engulfed homes. Some areas being submerged under more than two meters of mud. The destruction rendered living conditions and recovery extremely difficult, inflicting extensive damage on homes and infrastructure. The scale of mud accumulation was so great that even heavy machinery and large-scale manpower could not fully remove it as of the present.

These calamities also caused secondary crises, including waste accumulation, disease outbreaks, economic downturns, agricultural losses, and livelihood disruptions.

Amid these severe challenges, RMUTL has remained steadfast in its mission to alleviate poverty and relieve suffering resulting from the crises. The University strives to ensure that all individuals and communities can stand resilient and equal, providing non-discriminatory assistance that covers all six northern provinces where RMUTL campuses are located.

The forms of regional relief collaboration and poverty-alleviation assistance available to local communities in affected areas are summarized in Table 1, outlining the resources and supports accessible through RMUTL’s initiatives



Table 1: Forms of Relief and Poverty Alleviation Assistance, Including Services and Facilities Accessible to Local Communities

Type of Relief Measure	Description / Summary Information
Food Distribution	Establishment of community kitchens to prepare and distribute quality meals. In 2024, a minimum of 10,000 meal sets were distributed to affected individuals.
Water Distribution	Production and distribution of clean drinking water using the Hydro Pure mobile purification innovation. In 2024, at least 7,000 bottles of clean water were provided to disaster-affected communities. Deployment of vehicles to support logistics, evacuation, and delivery of relief supplies, including 13 vans, 4 passenger cars, 5 pickup trucks, 3 six-wheel trucks, 2 motorcycles, and 1 golf cart.
Land-Based Assistance	Provision of at least 4 boats, supported by external organizations, for relief and rescue operations in flood-affected areas.
Water-Based Assistance	- For fire and PM 2.5 crises: Development of forest fire detection sensors, PM 2.5 monitoring stations, "RMUTL Safe Zone" dust-free rooms, and PM 2.5 protective masks. - For floods and mudslides: Creation of mud-removal tools and surface-cleaning devices.
Inventions and Technological Solutions for Use or Distribution	Over 500 RMUTL staff and student volunteers were mobilized in two operational phases: • During the disaster: Cooking and distributing meals and drinking water, delivering essential supplies, and evacuating victims from danger zones. • Post-disaster or recovery phase: Clearing mud and debris, cleaning and restoring homes, public spaces, and historical sites, as well as continuing food and water support.
Deployment of Volunteer Personnel ("Spirit Volunteers")	• Get Zleep Hotel (RMUTL Enterprise): 85 rooms, accommodating at least 255 displaced persons. • Student Activity Building: 1 facility, accommodating at least 200 persons. • Food Laboratories: 2 facilities, with a combined capacity to produce 1,000–3,000 meal sets/day. • Food Factory Laboratory: 1 facility, capable of producing 1,000 meal sets/day. • Clean Water Production Plant: 1 facility with production capacity as follows: 1) PET bottles – 600 packs (7,200 bottles/day) using 2,000 liters of purified water; 2) Boxed water – 50 boxes/day; 3) Water tanks – 50 tanks/day using 1,500 liters of purified water. • Campus Canteens (6 provinces): Capable of serving approximately 3,000 persons daily.
Facilities and Laboratories Open for Community Access and Use	
Establishment of Disaster Relief and Coordination Centers	Disaster Relief and Coordination Centers were established in Chiang Mai, Chiang Rai, and Nan provinces to serve as command centers for relief operations and distribution hubs for assistance and donations.

No Poverty

Student Assistance under the Anounced Measures

The “Student Development Fund” was established in accordance with the Rajamangala University of Technology Lanna Regulation on the Student Development Fund, B.E. 2566 (2023). This initiative was endorsed by the Student Development Fund Committee in its resolution on 9 January 2024, designating the Fund as a key mechanism for providing financial support, relief, and rehabilitation to students affected by disasters or emergency situations that significantly impact their livelihood.




**มหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา
ช่วยเหลือนักศึกษาผู้ได้รับความเดือดร้อน
จากภัยพิบัติหรือมีเหตุฉุกเฉิน**

*"มทร.ล้านนา ขอสงวนความน่าเชื่อถือ
กิจกรรมนักศึกษาผู้ประสบภัยในท้องถิ่น"*

เพื่อเป็นการสนับสนุนและช่วยเหลือนักศึกษาที่ได้รับความเดือดร้อนจากภัยพิบัติ หรือเหตุฉุกเฉิน ที่กระทบต่อการดำเนินชีวิต มหาวิทยาลัยได้จัดตั้งกองทุนพัฒนานักศึกษา สำหรับการจ่ายเงินช่วยเหลือ ของระเบียบมหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา ว่าด้วยกองทุนพัฒนานักศึกษา พ.ศ. 2566 และมติคณะกรรมการกองทุนพัฒนานักศึกษา ในการประชุมครั้งที่ 1/2/2567 เมื่อวันที่ 9 มกราคม 2567 โดยมีรายละเอียดดังนี้

อัตราการจ่ายเงินช่วยเหลือ :
กรณีที่อยู่อาศัยของบิดา มารดา หรือผู้ปกครองของนักศึกษาประสบภัย เช่น อัคคีภัย อุทกภัย วาตภัย หรือแผ่นดินไหว ได้รับเงินช่วยเหลือสูงสุด ไม่เกิน 20,000 บาท

นักศึกษาที่ประสบภัยน้ำท่วมบ้าน หรือหอพัก เกิดความเสียหายต่อทรัพย์สิน ให้ถ่ายภาพหลักฐาน เพื่อใช้เป็นภาพประกอบการแจ้งมหาวิทยาลัย ในการขอรับการสนับสนุนเยียวยา ต่อไป... ทั้งนี้แบบฟอร์มขอรับความช่วยเหลือ ตลอดจนได้ทั้งการนักศึกษา ทุกเขตพื้นที่

กรณีอื่น ๆ ที่ไม่เข้าข่าย คณะกรรมการกองทุนพัฒนานักศึกษาพิจารณาเป็นกรณีไป สามารถติดต่อได้ที่ งานกิจการนักศึกษา แต่ละพื้นที่



**มทร.ล้านนา ร่วมใจ
ช่วยผู้ประสบภัยน้ำท่วม**

รายละเอียดเพิ่มเติม



Under this regulation, students whose parents or guardians suffer damage to their residence due to fire, flood, storm, or earthquake are eligible to receive financial assistance of up to 20,000 Baht per case.

Following the major flooding and mudslide disasters that occurred in several northern provinces between September and October 2024, many student families were directly affected—their homes, farmland, and properties were inundated or destroyed. These students are entitled to submit evidence, such as photographs or documentation of the damage, to apply for financial assistance from the University in accordance with their rights under the Fund’s provisions.





RMUTL as a Leading Educational Institution and Regional Relief Center Standing Firm Amid Crises

As a government-affiliated higher education institution, Rajamangala University of Technology Lanna (RMUTL) upholds its responsibility to serve as a pillar of support for society—benefiting not only nearby communities but also its personnel and students. This sense of duty is deeply ingrained in the University's ethos and cannot be neglected.

During the massive floods and mudslide disasters that struck several northern provinces between September and October 2024, RMUTL demonstrated readiness, resilience, and leadership through its accumulated experience, proactive planning, and consistent action in times of national crisis. The University emerged as one of the foremost institutions providing relief operations, establishing field kitchens, operating clean-water production systems, and deploying volunteer forces to deliver full-scale humanitarian assistance under the guiding principle of “Three Opens and One Coordination”:

- Open kitchens for meal production,
- Open clean-water production systems,
- Open manpower mobilization, and
- On-site coordination and collaboration.

For example, during the second phase of the flooding crisis, RMUTL mobilized instructors, staff, and student volunteers to produce meals and bottled water for distribution to flood victims in Chiang Mai and Lamphun Provinces. Between 5–11 October 2024, over 12,000 meal boxes and 40,000 bottles of purified water, produced through the Hydro Pure system, were distributed. Numerous individuals, groups, and external organizations also contributed to the effort.

The Ministry of Higher Education, Science, Research and Innovation (MHESI) emphasized the importance of RMUTL's role in utilizing its full potential to assist disaster victims in all aspects. Every meal produced was quality-controlled by faculty members from the Tourism and Hospitality Program, together with students from the Business and Nutrition Program.

Once the floodwaters receded, RMUTL continued its mission by deploying volunteer teams to restore affected areas under the project “Clean Chiang Mai”, while continuing to produce food and water to support volunteer operations. All activities were directed under the RMUTL Disaster Relief Coordination Centers established across its six northern campuses.

Collaborative Partners

RMUTL's operations were strengthened through extensive cooperation from both public and private sectors, including:

- Ministry of Higher Education, Science, Research and Innovation (MHESI),
- All nine Rajamangala Universities of Technology nationwide,
- Chiang Mai Municipality,
- Green Tree Foundation, and
- Disaster Response Association of Thailand (D.R.A.T.), among others.

This wide-ranging collaboration enabled RMUTL to expand its relief capacity, leading to the establishment of two major operational units:

1. Frontline Coordination Center for Flood Victims in Chiang Mai City, and
2. Disaster Relief Centers in other affected areas across the region.



No Poverty



Primary Missions and Operations

1. Establishment of field kitchens for cooking and producing drinking water using Hydro Pure mobile water units for free distribution to victims.
2. Provision of speedboat services for evacuation and delivery of essential supplies—particularly for vulnerable groups such as the elderly, children, and the sick.
3. Drone delivery and surveillance operations for high-water areas, conducted by the Disaster Response Association of Thailand (D.R.A.T.).
4. Deployment of high-lift vehicles to reach hazardous zones, with over 50 volunteers and 200 innovation volunteers assisting daily.
5. Provision of temporary shelters within RMUTL's supervised facilities for displaced persons.
6. Provision of parking spaces at RMUTL Huay Kaew Campus and RMUTL Doi Saket Campus for flood-affected residents.
7. Post-disaster rehabilitation, including house restoration, water pump repair, electrical appliance maintenance, and power system recovery, carried out by innovation volunteers from all nine Rajamangala Universities of Technology nationwide.

Through these concerted efforts, RMUTL has affirmed its status as a trusted educational institution, recognized by all sectors of society as a reliable refuge capable of effectively addressing short-term and emergency-induced poverty. With credibility, dedicated volunteer manpower (both staff and students), well-equipped facilities, and specialized laboratories, RMUTL's readiness has consistently shone as a source of tangible benefit to the public and the nation at large.



1.3 “Scholarships” — The Frontline of Opportunity Delivery

At RMUTL, we firmly believe that providing access to education is the first and most vital step toward overcoming poverty, both at the individual and societal levels. Therefore, the doors of all six RMUTL campuses are kept open wide—welcoming individuals from every background to become part of the “RMUTL community.”

Both prospective and current students are fully entitled to access a wide range of scholarships and financial assistance mechanisms, designed with strategic flexibility to prevent poverty from becoming an obstacle or source of anxiety in their educational journey, ensuring that they can pursue their studies successfully until graduation.



No Poverty

These scholarships include financial aid, employment opportunities, paid student work programs, and various income-generating mechanisms established as part of RMUTL's comprehensive and inclusive educational strategy.

The University recognizes that equitable access to education and supportive financial systems are key tools in the fight against poverty. Consequently, RMUTL is committed to providing financial support, advisory services, and income opportunities during the course of study for all students without discrimination, ensuring equality and dignity for everyone.

Throughout its history, RMUTL has continuously prioritized expanding educational access and enhancing quality of life for people across the northern region. This commitment is rooted in the University's core belief that education is the most powerful instrument for improving quality of life and promoting social equity.

In 2024, RMUTL established and implemented policies and strategic plans for reducing educational inequality, translating them into concrete action, particularly through internal budget and resource allocation to support the access of disadvantaged and vulnerable student groups with compassion and inclusivity.

Additionally, the University promotes employment-based scholarships and income-generating opportunities for students during their studies, alongside a variety of external financial support mechanisms contributed by multiple sectors.

A summary of RMUTL's scholarship programs and related support mechanisms is presented in Table 2.





Table 2: Scholarships and Financial Support Allocated to Vulnerable Student Groups and Overall Summary for the Year 2024

(a) Non-Repayable Scholarships

Scholarship Name	Total Amount (THB)	Recipients (Persons)	Remarks
TISCO Foundation for Charity	174,000.00	12	Annual Scholarship
Royal Patronage Scholarship	152,500.00	4	Continuing
Japanese Chamber of Commerce, Bangkok	440,000.00	9	Continuing
Dream-Building Education Foundation	1,000,000.00	60	Continuing
Child Creative Education Fund	10,000.00	2	Continuing
Thai Oil Public Co., Ltd.	67,000.00	3	Annual
Thai Petroleum Co., Ltd.	80,000.00	2	Continuing
Takahashi Foundation	90,000.00	3	Continuing
Krungthai Electric Co., Ltd.	260,000.00	4	Continuing
"Send Youths to Graduation" Ajinomoto Foundation	90,000.00	3	Continuing
Rotary Club of Bangkok	20,000.00	2	Annual
Siam Commercial Bank	20,000.00	2	Continuing
Royal Scholarship (M.T.S.)	62,300.00	1	Continuing
Mr. Apiwat Anuchitanukul	60,000.00	12	Annual
Ms. Rujiraporn Wang Lee	20,000.00	1	Continuing
Dr. Pirakorn Sukonthaman	20,000.00	1	Continuing
Ms. Karnwan Jaikriangkrai	10,000.00	1	Continuing
Fiducenter Co., Ltd.	13,000.00	1	Donation
Higher Education Fund	27,500.00	1	Continuing
Rajaprajanugroh Education Fund	60,000.00	2	Continuing
Niwat Krairerk Foundation	20,000.00	1	Continuing
Mr. Khamseen Intanin	10,000.00	0	Donation
Assoc. Prof. Teerasak Uratchananon	40,000.00	0	Annual
Siam Neco Energy and Resources Co., Ltd.	22,400.00	0	Donation
Mr. Manoo Thongrat	18,000.00	0	Donation
RMUTL Charity Night Group	792,373.84	0	Donation
Total	3,579,073.84	127	



No Poverty

(b) Loan-Based Scholarships — “Student Loan Fund” (Categories 1, 2, and 3)

Academic Year	Semester	Number of Students	Amount Transferred (THB)
2024	1	2,424	32,179,500.00
2024	2	2,285	30,333,500.00

(c) Other Types of Scholarships and Financial Support

Scholarship / Support Type	Application and Allocation Details
Student Employment	Based on student coordination and available job positions within the University or affiliated sectors.
Internship and Cooperative Education	Conducted in collaboration with partner enterprises and industries.
Job Placement	Facilitated through coordination by students and relevant agencies.
Industry–Academia Collaborative Programs	In partnership with Central Group, HANA, SNC, Bentaco, and CP Group.
Educational Subsidy Program for Students with Disabilities in Higher Education	Financial assistance allocated to 39 students, with a total budget of 848,250.00 Baht.
Emergency and Hardship Relief Scholarships	Assistance for students facing severe hardship or emergencies (e.g., floods, mudslides). In the academic year 2024 (B.E. 2567), a total of 131 students received support, with a total budget of 937,500.00 Baht.
Royal Scholarship for Cambodian Students (Scholarship for Students from Low-Income Countries)	For the academic year 2024 (B.E. 2567), 3 Cambodian students were awarded scholarships, with a total budget allocation of 214,695.00 Baht.



Summary of Key Points from the Table Above

The summary from the table presented above highlights RMUTL's comprehensive framework for financial and educational support for students in poverty or vulnerable groups, implemented through both university-funded initiatives and collaborative partnerships with government agencies, charitable foundations, and private sector organizations.

1. Financial Support for Students

RMUTL allocates financial aid based on the specific needs of underprivileged students through a wide range of scholarships. These include non-repayable scholarships funded by the Equitable Education Fund (EEF), Isuzu Foundation, Ajinomoto Foundation, and more than 20 leading organizations.

Additionally, the Student Loan Fund (SLF) enables students to access higher education without financial barriers, allowing them to repay after employment at low interest rates, thereby ensuring equitable access to education.

2. Income Generation During Studies

The University provides structured mechanisms for on-campus employment, particularly targeting low-income students. Opportunities include positions such as laboratory assistants, research assistants, and academic or activity support staff.

In collaboration with leading domestic industries, RMUTL co-develops industry-integrated curricula designed to align with labor market needs. These programs allow students, especially those from poor backgrounds, to work and study simultaneously, receiving financial compensation or direct sponsorship from industry partners until graduation.

3. Career and Skill Development

RMUTL implements cooperative education and paid internship programs in partnership with top enterprises and industrial sectors. These initiatives enable students to develop professional skills while earning income during their studies.

Furthermore, the University's Job Placement Center coordinates employment opportunities, connecting students with businesses in key economic zones near campuses, ensuring sufficient job availability to match student demand.

4. Crisis and Emergency Assistance

RMUTL maintains an Emergency Relief Fund to provide immediate financial assistance to students facing urgent hardships, such as natural disasters, family loss, or unforeseen emergencies.

This ensures that affected students can continue their education without interruption, helping to prevent dropouts from the higher education system due to financial crises.



Zero Hunger

Advancing Zero Hunger and Food Waste Reduction at RMUTL (2019–2024)

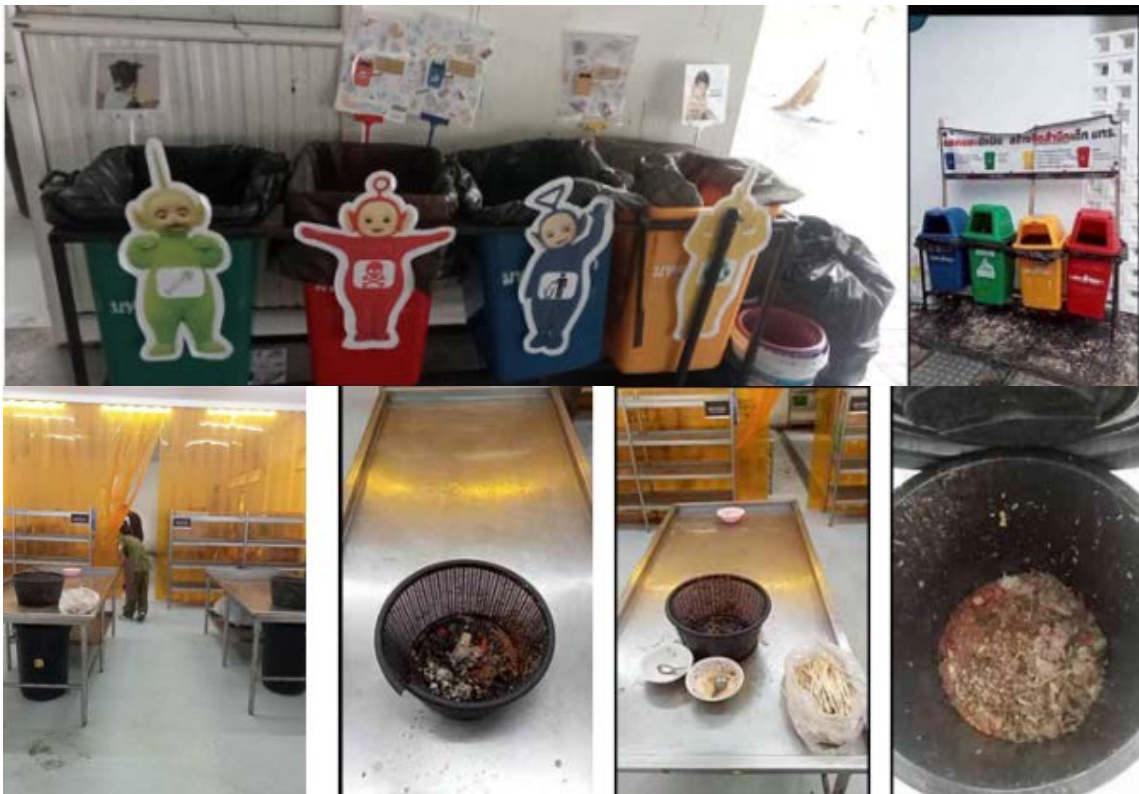
In 2024, RMUTL strengthened its commitment to Zero Hunger (SDG 2) through programs that addressed food insecurity and promoted sustainable consumption. The university organized workshops and technology transfer initiatives to support local farmers and food producers, helping enhance product value, market visibility, and community resilience.

Campus Food Waste Tracking

Table 1: RMUTL Food Waste (2019–2024)

Year	2019	2020	2021	2022	2023	2024
Food waste (Tons)	9.67	<1	4.05	9.00	9.52	9.00

Data collected by the Department of Building and Facility Development show that RMUTL’s food waste trends were shaped by both academic operations and the COVID-19 pandemic. Waste dropped sharply in 2020 during nationwide lockdowns and online learning, then rose again as on-site learning resumed. Overall, hybrid education periods generated less waste—around half the levels of fully on-site years—demonstrating the link between campus activity and food waste generation. These findings highlight RMUTL’s role in promoting responsible food consumption, reducing waste, and supporting sustainable food systems that contribute to a hunger-free future.





Preventing Food Insecurity Among RMUTL Students

To advance zero hunger, RMUTL addresses student food insecurity through both financial and sustainable food system solutions. The university maintains affordable tuition rates and offers extensive scholarships and loans including the Equitable Education Fund (EEF) and Student Loan Fund—to ensure access to education, food, and housing for all learners. RMUTL also promotes campus food self-sufficiency through integrated agricultural systems that grow rice, fruits, vegetables, and livestock. These products support student meals and local food vendors, helping keep prices low and nutrition high. By distributing seeds to students and nearby communities, the university strengthens local food resilience and preserves nutrient-rich plant varieties, contributing to sustainable agriculture and long-term food security.

Advancing Zero Hunger Through Sustainable Agriculture

RMUTL continues to promote Zero Hunger (SDG 2) by developing agricultural areas under the “New Theory” farming approach and the Sufficiency Economy Philosophy. The project aims to maximize land use, strengthen food security, and model community well-being through collaboration with local stakeholders.

At the Doi Saket campus, the revitalized Khok Nong Na area serves as a learning center for sustainable farming, where students—especially those supported by the Equitable Education Fund (EEF)—work alongside farmers in:

- Post-rice crop cultivation of tiger-striped peanuts for community food sharing and seed preservation.
- Integrated and safe agriculture, producing vegetables and eggs to reduce student food costs and generate income.
- Organic rice farming under the “Rajamangala Unity, Rice for the Nation” project, providing nutritious meals and donations to disadvantaged groups.

This initiative enhances local food systems, promotes self-reliance, and supports sustainable, hunger-free communities.





Zero Hunger

On November 19, 2024, RMUTL's "Under the Royal Patronage" program held the Na Pun Suk: Sharing Happiness in the Fields event at the Sufficiency Economy Learning Center, Doi Saket campus, where participants harvested rice and vegetables to honor the King and promote national well-being.

The event brought together RMUTL faculty and students for hands-on learning and knowledge transfer in sustainable agriculture, fostering future food security careers. Participants harvested rice grown through the Sufficiency Economy Learning Initiative, which supports Zero Hunger (SDG 2) by producing rice seeds for the next season and providing food for students and staff facing food insecurity. Surplus rice was shared with disadvantaged community members and local farmers, strengthening local food systems and promoting sustainable production and consumption.



Interventions to Achieve Zero Hunger Among Students and Staff

In 2024, RMUTL strengthened its commitment to Zero Hunger through targeted actions to reduce food insecurity. The university organized meal distributions, established food banks, and designated food-sharing areas to ensure access to sufficient, safe, and nutritious food for all students and staff. These initiatives enhance well-being and academic success while promoting a sustainable and food-secure campus community.

Preventing hunger among RMUTL students and Staff Project

The Institute of Research and Development met with university executives to set the framework for the RMUTL Disaster Management Center.



On December 16, 2024, RMUTL's Institute of Research and Development, chaired by Asst. Prof. Phisit Wimonthanasit, held a strategic meeting to establish the RMUTL Disaster Management Center. Funded by Thailand Science Research and Innovation (TSRI), the project aims to improve flood disaster management in Lampang Province, enhance resilience, and support food security (SDG 2). The initiative focuses on closing operational gaps, developing data-driven response systems, creating innovative technologies, and promoting volunteer training and collaboration with public, private, and local partners for effective disaster preparedness, response, and recovery.



RMUTL mobilized faculty, staff, and students to provide boxed meals and drinking water to flood-affected communities in Chiang Mai, supporting social responsibility and sustainable development.



On October 7, 2024, RMUTL supported flood-affected communities in Chiang Mai by providing boxed meals and clean water using the Hydro Pure system. Led by Associate Prof. Uten Kamnan and Asst. Prof. Dr. Chatturith Thongpron, university teams coordinated with local authorities across Chiang Mai and Lamphun. The initiative strengthened food security, disaster resilience, and community well-being, reflecting RMUTL's mission for sustainable social impact.

The Nan Provincial Red Cross visited scholarship students under the Royal Patronage of Her Royal Highness Princess Maha Chakri Sirindhorn, The Princess Royal.

Building on past flood experiences, RMUTL has provided safe water, emergency kitchens, and volunteers to support community resilience, food security, and well-being. The university is upgrading its Disaster Management Center with advanced communication systems, volunteer networks, and community-focused disaster education to serve as a regional hub for preparedness and collaboration. RMUTL also awarded its 2024 Flood Relief Scholarships to students affected by disasters, supporting their studies and reinforcing its commitment to student welfare.





Zero Hunger

Addressing Food Insecurity Among Students and Staff

RMUTL implements programs to prevent hunger and promote well-being among students and staff through food distribution, on-campus food banks, and social support initiatives, reflecting its commitment to “Leave No One Behind.” Leveraging its presence across six northern provinces rich in natural and agricultural resources, the university integrates social, economic, and environmental strategies to strengthen food security.

Early Warning and Risk Assessment

Student risk monitoring is jointly managed by the Office of Student Development, Academic Promotion and Registration Office, and faculties, while staff monitoring is handled by the Personnel Management Department. Risk indicators include flood-prone locations, health data, family income, and prior aid or scholarship applications. In 2024, RMUTL provided emergency financial aid through the Student Development Fund and supported students via scholarships and loans such as the Equitable Education Fund (EEF) and the Student Loan Fund.

Staff Benefits and Food Assistance

Staff welfare includes a provident fund, social security, and a savings cooperative. Short-term aid for staff and students is available through the “Food Reserve Center,” community kitchens, free meal programs, water stations, and food-sharing cabinets stocked with ready-to-eat items and cooking essentials.

To mark its 20th anniversary in 2025, RMUTL will distribute “Blessing Baskets” featuring sustainable, student-and-faculty-made products from its five campuses. Packaging, designed by the Faculty of Fine Arts and Architecture, uses eco-friendly materials with Lanna-inspired patterns to reflect regional culture.

Access to Clean Water

RMUTL invests in clean water systems, including Hydro Pure technology, mobile units, and campus water stations. Collaboration with food vendors and partners ensures nutritious meals made with locally donated ingredients.

Medium- and Long-Term Food Security Measures

The university promotes on-campus cultivation of rice, vegetables, fruits, and livestock, providing land, seeds, tools, and organic farming knowledge. Students and communities receive seeds to encourage self-sufficiency and preserve native varieties. Long-term efforts include skill development in food production, electrical work, online selling, tour guiding, and small-scale farming. Work-integrated learning and partnerships with public and private sectors enhance sustainable food security, reduce hunger risk, and support students’ academic and personal growth.

RMUTL Provident Fund and Staff Welfare

The Provident Fund fosters savings and financial stability for eligible staff who have completed probation. RMUTL ensures fair compensation covering essential living costs—food, housing, and utilities—with salaries reflecting qualifications, experience, and contributions.

Table 1: Salary rates of personnel by educational qualifications and employment type at RMUTL



คุณวุฒิ	ลูกจ้างชั่วคราว	พนักงานราชการ	พนักงานในสถาบันอุดมศึกษา	
			วิชาการ	สนับสนุน
ปริญญาเอก	21,000		33,600	29,400
ปริญญาโท	17,500		28,000	24,500
ปริญญาตรี	15,000	18,000		21,000
ปวส.	11,500	13,800		
ปวช.	9,400	11,280		
ม.3/ม.6	8,690			

กองบริหารงานบุคคล มหาวิทยาลัยเทคโนโลยีราชมงคลล้านนา

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RMUTL underscores its commitment to staff development and well-being by setting wages that reflect economic conditions, cost of living, and employee qualifications, as highlighted in the 2022 wage announcement (Figure 1). Staff are encouraged to pursue professional growth while supporting the university's balanced development.

For academic staff, starting salaries are 24,000 baht for master's degree holders and 31,500 baht for doctoral degree holders, rising to 29,760 baht, with career progression from Assistant Professor to Professor capped at 122,440 baht. Academic support roles follow a tiered system based on experience and qualifications, with starting salaries of 21,000 baht (bachelor's), 24,500 baht (master's), and 29,400 baht (doctoral).

RMUTL also offers performance- and skill-based incentives to encourage professional development and high-quality work. Salary increases are calculated from government base pay, with a 30% boost for academic roles and 40% for specialized positions, ensuring competitive and fair compensation. Most staff earn between 24,000–45,000 baht per month (≈685–1,286 USD), 10–20 times above the extreme poverty line, reflecting the university's commitment to staff well-being and financial security.



Zero Hunger

Promoting Healthy, Affordable, and Sustainable Food Choices at RMUTL

RMUTL has advanced sustainable and affordable dining on campus by offering diverse food options, including vegetarian and vegan meals. These choices accommodate varying dietary preferences while promoting health, environmental responsibility, and cost-consciousness, ensuring all students and staff have access to nutritious, eco-friendly, and budget-friendly meals.

The initiative not only supports the community's well-being but also fosters awareness of social and environmental responsibilities. By providing affordable plant-based options, the university sets an example of how educational institutions can lead in sustainable practices, encouraging individuals to consider the impact of their food choices on personal health, finances, and the environment.

Through sustainable and cost-effective food procurement, RMUTL promotes a holistic approach to health and well-being, contributing to a supportive learning environment. These efforts reflect the university's commitment to nurturing both academic excellence and a healthier, more sustainable, and affordable future for the campus community and beyond.



Promoting Access to Knowledge, Skills, and Technology for Food Security

RMUTL advances sustainable food security by empowering local farmers and producers with knowledge, skills, and modern agricultural technologies. Projects such as the Product Development and Community Strengthening Project in Chiang Mai and the Mobile Agricultural Clinic in Chiang Rai provide training in sustainable farming, value-added processing, and innovative practices.

The university also promotes public engagement through events like the 2025 Lampang Winter Festival and Local Products Exhibition, showcasing research and local innovations to encourage knowledge exchange and community collaboration. These initiatives strengthen local livelihoods, reduce agricultural waste, and promote environmentally responsible practices aligned with the Sufficiency Economy Philosophy and the Sustainable Development Goals.

RMUTL Community Technology Transfer Institute Conducts Field Visits to Support Local Innovation Projects

On July 17, 2024, Assistant Professor Worajak Muangjai, Director of the Community Technology Transfer Institute and Head of the Under the Royal Patronage Program, together with Assistant Professor Montri Ngaodej and Mr. Narit Kamphaengkaew, led staff on field visits to collect data and film materials for a research and academic services database addressing local challenges. The initiative also aimed to strengthen partnerships and promote multidimensional sustainable development.

1. The team visited three ongoing projects, including **"Innovation in Egg-Laying Chicken Feed Using Local Ingredients Based on the King's Philosophy,"** led by Ms. Usaneephon Soiphet from the Faculty of Science and Agricultural Technology, RMUTL Phitsanulok. The project develops low-cost, high-quality feed formulas for the Happy Egg Chicken Community Enterprise in Phitsanulok, using fresh red azolla as a sustainable protein source.



2. Prototype Mobile IoT-Controlled Solar Water Pump for Farmers

Led by Mr. Sombat Mongkolchaichana, Lecturer, Faculty of Engineering, this project developed a compact, solar-powered mobile water pump for farmers in Ban Krang Subdistrict, Phitsanulok. The IoT-based system allows remote control via a mobile app, includes soil moisture and air temperature sensors, and uses battery storage for continuous operation. The portable design reduces fuel costs and supports efficient water management across planting areas.



3. Prototype Cool Air Vegetable Spinner for Organic Processing

Led by Ms. Duanram Paengkiao, Lecturer, Faculty of Engineering, this project developed a cool air vegetable spinner with a microcontroller that adjusts operation by weight and displays spinning time and weight. Tested for optimal speed and efficiency, the system effectively removes moisture from organic vegetables, supporting the Safe Vegetable Community Enterprise in Sukhothai in producing crispy vegetable sheets, vegetable jelly, and other value-added products





Zero Hunger

RMUTL Showcases Innovation at the 2025 Lampang Winter Festival and Local Products Exhibition



RMUTL participated in the 2025 Lampang Winter Festival and Local Products Exhibition, showcasing innovations, research outputs, and local products. The event promoted community engagement, highlighted regional strengths, and fostered knowledge exchange between academia, local producers, and the public, supporting local culture, agriculture, and sustainable development.

On December 13, 2024, the Institute of Agricultural Technology Research (IATR), RMUTL, joined the opening of the 2025 Lampang Winter Festival and Local Products Exhibition and organized an exhibition from December 13–22 at the National Sports University, Lampang Campus. The event highlighted achievements, shared academic knowledge, and showcased local technological innovations from public and private sectors. RMUTL's participation promoted the university's expertise, encouraged engagement among faculty and students, and presented research and services in plant genetic conservation, crop genetics, technology and plant disease clinics, and safe agro-industrial practices—supporting sustainable agricultural development in Lampang and nearby provinces.

Enhancing Food Security for Tai Lue Farmers in Ban Wang Phai, Chiang Mai, Through Knowledge, Skills, and Technology Transfer

Under the Royal Patronage Program and the Agricultural Technology Research Institute, Lampang, organized a knowledge transfer activity with the Tai Lue farmers' group in Ban Wang Phai, Tha Ton Subdistrict, Chiang Mai. The session focused on developing value-added agricultural products from mushrooms and local crops such as bananas, pumpkins, sweet potatoes, mangoes, and konjac to reduce waste and enhance commercialization. Farmers received hands-on training in processing techniques, including mushroom chili paste, crispy mushrooms, mushroom crackers, mushroom rice seasoning, and sweet potato- or pumpkin-filled steamed buns and curry puffs. The initiative strengthens local food security by providing knowledge, skills, and technology for safe, sustainable food production, supporting alternative incomes and community resilience under the Sufficiency Economy Philosophy.





RMUTL Chiang Rai's Faculty of Science and Agricultural Technology provided agricultural consultation services at the Mobile Agricultural Clinic, Q1 FY2025.

On December 23, 2024, the Faculty of Science and Agricultural Technology, RMUTL Chiang Rai, led by Assistant Professor Chamaiporn Rattanacharoenchai, participated in the Mobile Agricultural Clinic Project under the Royal Patronage of His Royal Highness the Crown Prince. Presided over by Chiang Rai Governor Mr. Charin Thongsuk at Chiang Rai Buddhist Park, Bua Sali Subdistrict, the faculty organized a booth to address farmers' concerns, provide academic services, conduct plant toxin testing, and offer consultations through the Scientific Instruments and Services Unit.

The event honored His Majesty the King and supported royal initiatives by improving access to agricultural services for remote farmers. In collaboration with academic institutions, extension agencies, and LAPEs, it offered integrated solutions in crop production, livestock, and modern technologies to boost productivity, reduce costs, and enhance farmers' livelihoods, aligning with government policies for sustainable agriculture.



Supporting Local Farmers and Food Producers Through Knowledge Exchange

RMUTL fosters knowledge exchange and collaboration by creating platforms for local farmers and food producers to network, learn, and innovate. Partnering with community organizations, local authorities, and government agencies, the university promotes value-added production, sustainable agriculture, and entrepreneurial skills.

Key initiatives include business incubation projects like the "Chiang Rai Smart Model: Farmer and Entrepreneur Network," offering hands-on training in agricultural techniques, product processing, and market strategies to address challenges such as oversupply and substandard produce.

RMUTL also supports human resource development in food and nutrition, with staff participating in programs like "One Village One Thai Chef" to enhance culinary and teaching skills. Through practical training, mentorship, and networking, RMUTL strengthens farmers' and food professionals' capacity to innovate, add value to local products, and contribute to community and national development.



Zero Hunger

RMUTL, Chiang Rai, in collaboration with partner network organizations, organized a business incubation project to foster local innovation.

On December 16, 2024, RMUTL Chiang Rai, in collaboration with local administrative organizations, community enterprises, and the Technology Clinic, launched the “Chiang Rai Smart Model: Farmer and Entrepreneur Network” business incubation project. Held at Chiang Rai Happy Life Organic Farm, the initiative promotes local innovation, participatory learning, and sustainable community development by reducing risks, strengthening resilience, and improving resource management.

Participants engaged in hands-on activities, including making agricultural compost microorganisms, fresh milk hormone formulas, salad rolls, organic juices, kimchi, and natural soaps, transferring practical agricultural and entrepreneurial skills. The event, opened by Mr. Jeerapong Jaiwong, President of the Sai Khao Subdistrict Administrative Organization, drew numerous farmers and local entrepreneurs committed to applying innovations for community development



RMUTL, Chiang Rai, organized a business incubation project to enhance the quality of agricultural products.

On December 17, 2024, RMUTL Chiang Rai held a “Chiang Rai Smart Model: Network of Farmers and Entrepreneurs” activity at Nam Wa Community Enterprise. The program trained farmers and entrepreneurs in production standards and value-added processing to reduce waste and enhance lower-grade produce. Collaborating with local authorities, the initiative helps develop processing facilities, strengthen skills, boost local economic growth, and promote sustainable, high-quality agricultural products for competitive markets.



Food and Nutrition Staff Participate in Thai Culinary Skills Upskilling Workshop



Food and Nutrition Staff Attend “One Village One Thai Chef” Training

From January 6–10, 2025, staff from RMUTL Chiang Mai and Tak’s Food and Nutrition program, led by Associate Professor Dr. Atchara Donwitayakun, participated in the “One Village One Thai Chef: One Family One Soft Power (OFOS)” training at the Thailand Institute of Food, Bangkok. The program, led by Chef Chumpol Jangprai, aims to develop Thai cuisine as national soft power by training university personnel as instructors to teach professional Thai cooking techniques. Through mentorship and hands-on training, participants gain skills to support food entrepreneurship, enhance teaching, and contribute to Thailand’s culinary economy. Between 2024–2027, the program targets training 75,000 professional chefs, boosting employment and strengthening Thailand’s food soft power.

Enhancing Community Access to University Resources for Sustainable Agriculture

RMUTL provides farmers and food producers with access to research, technologies, and plant varieties to promote sustainable agriculture. Through initiatives like the Safe Food City Project and sufficiency economy-based learning at Doi Saket, the university offers hands-on training and technology transfer, helping communities improve productivity, adopt eco-friendly practices, enhance food security, and build resilience for long-term sustainable development.

Laan Mueang Market Partners with RMUTL Chiang Rai to Launch the “Safe Food City” Project

On December 3, 2024, Mr. Phairoj Hanphithakwong, Manager of Laan Mueang Market, met with RMUTL Chiang Rai, led by Assistant Professor Dr. Chamaiporn Rattanacharoenchai, with representatives from the Faculties of Science and Agricultural Technology and Engineering. The meeting focused on the Safe Food City Project to promote safe food production, enhance quality of life, and strengthen food security in Chiang Rai, including MOU development, environmental monitoring, and integrating agricultural technology into curricula. The RMUTL team also toured the market’s Food Product and Agricultural Quality Inspection Center, which tests produce and meats to ensure safe, high-quality food for residents.





Zero Hunger

RMUTL Welcomes Phayao College of Agriculture and Technology



RMUTL warmly welcomed administrators and students from Phayao College of Agriculture and Technology for a meeting to discuss academic collaboration. The visit included a study tour on clean energy technologies and smart farming innovations.

RMUTL Hosts Delegation from Phayao College of Agriculture and Technology

On December 12, 2024, RMUTL Doi Saket welcomed a delegation from Phayao College of Agriculture and Technology, led by Acting Lieutenant Prasert Prompao, with faculty and 12 students.

The meeting highlighted academic collaboration and a study visit to RMUTL's research in precision agriculture, smart farming, and clean energy. University representatives presented projects and guided the delegation through mobile solar water pumps, precision greenhouses, and electricity peak management systems. The visit promoted agricultural education, knowledge transfer, and pathways for students to join RMUTL programs.

The delegation then visited the Sufficiency Economy Learning Center at RMUTL Doi Saket, part of the Royal Projects-based Learning Area Development initiative. The project aims to enhance local potential and create model communities of well-being through technology and innovation, with active participation from both the university and surrounding communities.

Samart Sa-lee from the Under the Royal Patronage Program, along with students from the Equitable Education Fund (EEF), welcomed the delegation, provided presentations, and demonstrated the integration of New Theory agriculture based on the Sufficiency Economy Philosophy. The model areas included:

1. Organic rice paddies and post-harvest crops
2. Demonstration plots for rotational, alternative, and replacement crops
3. Vegetable gardens
4. Agricultural technology testing areas

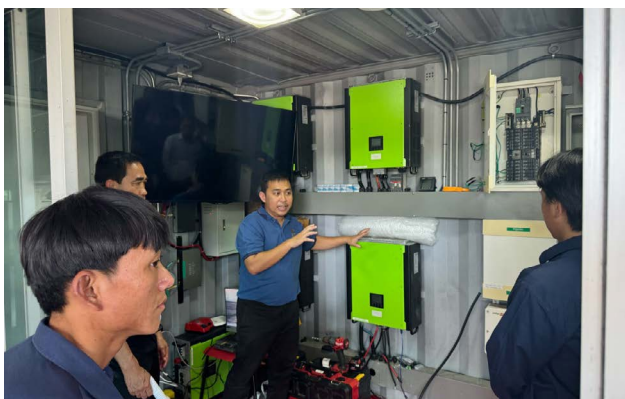
These model areas serve as social laboratories, combining royal knowledge and hands-on learning outside the classroom. Participants gain practical experience, develop a thorough understanding, and are equipped to adapt, expand, and apply the technologies and management practices appropriately in their own communities.





RMUTL Doi Saket Sufficiency Economy Learning Center: Promoting Sustainable Development

The Sufficiency Economy Learning Center at RMUTL Doi Saket supports education, research, and academic services to drive sustainable development. Applying the Sufficiency Economy Philosophy, it strengthens local capacity for food security, livelihoods, poverty reduction, and nutritional well-being, while promoting sustainable agricultural practices. These efforts advance social equity and align with the Sustainable Development Goals through community engagement and localized initiatives.



Enhancing Community Access to University Resources for Sustainable Agriculture

RMUTL provides local farmers and food producers with access to its academic and technological resources to support sustainable agriculture. Through laboratories, agricultural technologies, plant varieties, and the Community Knowledge Repository, RMUTL shares research, innovations, and best practices, enabling communities to improve productivity, adopt environmentally responsible practices, and strengthen food security. This approach integrates academic services with community empowerment, fostering long-term economic and environmental resilience.





Zero Hunger

Prioritizing Local Product Procurement



“Blessing Baskets’ New Year 2024 Gifts: Spreading Happiness from RMUTL”

RMUTL promotes sustainable local products to support community economies and well-being. The university encourages staff and students to develop high-quality, eco-friendly goods—such as OTOP items and Eco-print fabrics—and serves as a hub for their distribution and promotion in partnership with government, private, and local organizations. By integrating knowledge, technology, and innovation, RMUTL helps improve product standards and foster sustainable production practices.

RMUTL Spreads New Year 2024 Joy with ‘Blessing Baskets’

RMUTL celebrates the New Year 2024 with special “Blessing Baskets,” featuring 19 selected products from health research and commercial innovations, showcasing faculty and student work across all five campuses—Chiang Rai, Lampang, Nan, Tak, and Phitsanulok—under the concept “Edible, Usable, Marketable, Sustainable.”

Prepared for RMUTL’s 20th anniversary in 2025, the baskets, designed by the Department of Packaging Technology, blend innovation with Lanna heritage. Made from eco-friendly paper with cut-out patterns inspired by traditional weaving, they showcase regional culture. “Selected from 139 community projects, 19 baskets highlight commercial and health potential while transferring knowledge to local residents,” said Assistant Professor Dr. Jatturit Thongpron, Acting President of RMUTL.





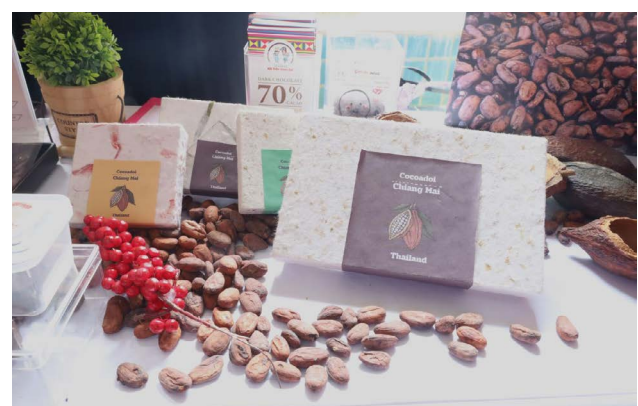
The Institute for Technology Transfer to the Community, RMUTL, participated in selecting Chiang Mai's outstanding OTOP products, promoting local, sustainable food systems and supporting community-based agriculture.



On September 20, 2024, Assistant Professor Dr. Thanyawadee Sujarittam, Deputy Director of the Institute for Technology Transfer to the Community, RMUTL, represented the university on the Knowledge-Based OTOP (KBO) committee for Chiang Mai Province, chaired by Deputy Governor Mr. Weerapong Ritrod. The committee selected one outstanding OTOP product to represent Chiang Mai at the national level. This initiative demonstrates RMUTL's commitment to promoting local, sustainable food systems and supporting small-scale producers by contributing to food security, sustainable agriculture, and community resilience. It highlights the university's role in fostering knowledge networks, enhancing local product value chains, and supporting inclusive economic development in local communities.

RMUTL and GSB Host 2024 Young Local Development Project Showcase

On September 20, 2024, RMUTL's Community Technology Transfer Institute, in collaboration with Government Savings Bank (GSB), held the "2024 GSB Young Local Development Project Showcase" at Khum Phucome Hotel, Chiang Mai. The event, opened by Asst. Prof. Akksatja Duangsupsasin, aimed to select projects to represent RMUTL at the Northern regional competition. Five teams presented innovative community-based projects, including zero-waste products, creative tourism, chocolate development, and local food processing. Team Theobromine won first prize, a trophy, and 4,000 THB, earning the right to represent RMUTL at the regional competition.





Good Health & Well-Being

Rajamangala University of Technology Lanna Organizes Anti-Drug and Anti-Smoking Campaign to Promote Well-being in Educational Institutions

On August 31, 2024, the Division of Student Development at Rajamangala University of Technology Lanna organized a campaign and project aimed at preventing and addressing problems related to drugs, cigarettes, e-cigarettes, and alcohol within educational institutions. The event took place at Thongkwaw Conference Room, Integrated Learning Building. The objective was to raise awareness, understanding, and consciousness among students about the dangers of various forms of addictive substances, while promoting a healthy and safe educational environment.

The event was presided over by Associate Professor Dr. Theerasak Urajhananon, Vice President for Council Affairs, who delivered the opening remarks. Mrs. Saiyut Suwatti, Academic Officer (Professional Level) and Acting Director of the Division of Student Development, presented the report outlining the objectives of the project.

Activities included training sessions and motivational campaigns for university staff and student leaders participating in the project. The university was honored to have Mr. Pramuan Kowitchaivwat, Director of the Northern Youth Development Center (NYDC), and his team as guest speakers. They delivered a lecture on “The Current Situation of Drug Problems and the Dangers of Drug Abuse,” aiming to strengthen understanding and provide effective prevention approaches.

This project was supported by the Thai Health Promotion Foundation (ThaiHealth) and implemented under the framework of the Sustainable Development Goals (SDGs), Goal 3: Ensure healthy lives and promote well-being for all at all ages — particularly Target 3.5, which focuses on strengthening prevention and treatment of substance abuse, including narcotic drug use and harmful use of alcohol.

Rajamangala University of Technology Lanna remains committed to creating a safe educational environment conducive to sustainable student development by building a network of youth leaders equipped with knowledge and skills to advocate for drug prevention both within the university and in the broader community.





RMUTL Strengthens Student Health and Safety with Comprehensive Insurance Coverage

In a continued effort to build a community that values health, safety, and well-being, Rajamangala University of Technology Lanna (RMUTL) has introduced a group accident insurance program for all students in the 2024 academic year.

The initiative, led by the Student Development Division, ensures that every RMUTL student is protected under a comprehensive health and accident coverage plan — promoting confidence and equality in access to medical care. The insurance policy offers benefits that include medical expense coverage of up to 35,000 THB per incident, compensation of up to 250,000 THB in cases of accidental death, and 50,000 THB in cases of death due to illness.

Coverage will be valid from June 1, 2024, to May 31, 2025, ensuring year-round protection for all enrolled students. For convenience, students can easily check affiliated hospitals through a QR code or the Muang Thai Friends mobile application, using their ID card to access services quickly and efficiently.

This health protection program reflects RMUTL's dedication to nurturing a safe and supportive learning environment, where students can pursue their education with peace of mind. By prioritizing health equity, safety, and preventive care, the university continues to contribute to a society that values quality health and well-being for all, aligning with its vision of sustainable development and lifelong growth.



RMUTL Advances Well-Being Through the “Healthy Body, Happy Mind” Program for Academic Year 2024.

Rajamangala University of Technology Lanna (RMUTL), through its Student Development Division, organized the annual “Healthy Body, Happy Mind” program for the 2024 academic year to promote the holistic well-being of students and staff. The initiative aligns with the global mission to enhance health and well-being for all at every stage of life.

A highlight of the event was the third “Baslop Dance” session, a creative exercise combining fun and fitness. The rhythmic dance promotes blood circulation, physical strength, and stress reduction through lively movements set to a mix of traditional and contemporary music.

The Healthy and Relax activities took place throughout August 2024, every Wednesday and Friday from 4:00 to 5:00 p.m., at the RMUTL Chiang Mai Central Canteen, attracting continuous participation from students and university personnel alike.

This initiative represents part of RMUTL's ongoing efforts to drive health promotion at the institutional level, emphasizing proactive and accessible approaches that bring joy to daily life while nurturing both physical and mental health. The activities also aim to reduce the risk of non-communicable diseases (NCDs) and chronic stress, particularly among young adults and working-age groups.

Beyond its health benefits, the program fosters a strong sense of community and shared ownership within the university, encouraging active participation in self-care and mutual support — key components in achieving sustainable well-being.

With a healthy body and a positive mind, RMUTL students and staff are empowered to learn, work, and thrive — ready to face the challenges of modern life with resilience and sustainability.

สิทธิประโยชน์ฉบับนี้
นักศึกษาชาวต่างชาติที่สมัครเรียนที่มหาวิทยาลัยราชภัฏเชียงใหม่

คุ้มครองตั้งแต่
1 มิถุนายน 2567 เวลา 0:01 น. ถึง 31 พฤษภาคม 2568 เวลา 24:00 น.

วงเงินคุ้มครองประกันอุบัติเหตุ

เงินชดเชย เมื่อบาดเจ็บหรือทุพพลภาพ	ค่ารักษาพยาบาล	เงินชดเชย กรณีเสียชีวิต
ไม่เกิน 250,000 บาท/คน	35,000 บาท ต่ออุบัติเหตุ 1 ครั้ง	จาก 100,000 บาท ถึง 250,000 บาท

เอกสารที่ใช้ในการยื่นขอสินไหมชดเชย

- ใบเสร็จรับเงิน
- ใบรับรองแพทย์
- สำเนาบัตรประชาชน 1 ฉบับ
- สำเนาบัตรนักศึกษา 1 ฉบับ
- สำเนาบัตร BOOKBANK 1 ฉบับ
- พร้อมรับรองสำเนาจริง 3 ฉบับ

นักศึกษาสามารถตรวจสอบโรงพยาบาลในเครือข่ายได้ QR-Code

แสดงบัตร หรือ Application ก่อนเข้ารับการรักษา

บัตรประชาชน บัตรนักศึกษา Application

สอบถามรายละเอียดเพิ่มเติม
โทร. 053-921444 ต่อ 1602
งานประกันอุบัติเหตุ/สุขภาพศึกษา กรมส่งเสริมการเกษตร



Good Health & Well-Being

RMUTL Promotes Holistic Well-being Through “Walk-Run Challenge” Activity

The Nursing and Health Promotion Unit, under the Student Development Division of Rajamangala University of Technology Lanna (RMUTL), organized the “Walk-Run Distance Accumulation Challenge” as part of the “Healthy Body, Happy Mind” program for the 2024 academic year. The activity aimed to enhance the physical and mental well-being of students and staff, reflecting the university’s commitment to fostering good health and quality of life for all ages.

A highlight of the program was the 40-kilometer Walk-Run Challenge, held from 7 to 31 August 2024, with more than 200 participants from across the university community. The event encouraged participants to engage in consistent and goal-oriented exercise, building long-term healthy habits.

Participants who successfully completed the 40-kilometer target received a special event T-shirt as a token of recognition — a fun and motivating way to inspire continued self-care and sustainable wellness practices.

The initiative underscores RMUTL’s proactive approach to health promotion, helping to reduce the risk of non-communicable diseases (NCDs) while also supporting mental resilience through personal goal-setting and community engagement.

Beyond improving individual fitness, the activity strengthened social bonds and collective participation within the university, cultivating a shared culture of health and mutual support. With strong bodies and positive minds, RMUTL students and staff are better equipped to learn, work, and thrive — ready to face the challenges of modern life with confidence and sustainability.



RMUTL Builds a Safer, Healthier Community Through Life-Saving Skills Training

Rajamangala University of Technology Lanna (RMUTL), through its Student Development Division, organized a hands-on training program titled “Basic First Aid and Life Support Skills Workshop 2025” on March 21, 2025, at the Innovation Room, Faculty of Liberal Arts Building, Chiang Mai Campus. The training brought together 85 participants, including faculty members, staff, and students, with the goal of strengthening essential life-saving skills for emergency situations. The event was presided over by Dr. Aksajja Duangsuphasin, Vice President for Student Affairs and Alumni Relations, with Chief Petty Officer Amnaj Jaikamphu, Director of the Student Development Division, delivering the opening remarks. The workshop featured multidisciplinary instructors from Nakhonping Hospital, Saraphi Hospital, and the Sawang Samret Foundation, Chiang Mai, who conducted lectures, demonstrations, and practical exercises on topics such as seizure response, poisoning management, traffic accident first aid, airway obstruction assistance, wound and fracture care, and CPR resuscitation.

This initiative reflects RMUTL’s commitment to fostering a culture of safety, health awareness, and community responsibility. By equipping participants with practical knowledge and real-world emergency response skills, the university empowers its students and staff to care for themselves and others with confidence and compassion. The program not only enhances personal and professional preparedness but also supports the development of social responsibility and volunteer spirit — key pillars in building a safe, educated, and sustainable society.





RMUTL Offers Psychological Counseling Services to Support Mental Well-being

The Student Development Division of Rajamangala University of Technology Lanna (RMUTL) invites all students to make use of its Psychological Counseling Room, a safe and supportive space designed to promote mental wellness and life balance. Professional psychologists are available to provide personalized guidance, emotional support, and practical advice to help students manage academic and personal challenges with confidence. The service operates on a walk-in basis every Monday and Tuesday, from 9:00 a.m. to 4:00 p.m., at the Consultation Room, Ground Floor, General Education Building. Appointments for other days can be arranged in advance via the Facebook page: “RMUTL Mental Health Care”, or by contacting 053-921444 ext. 1086.

Rooted in RMUTL’s mission to nurture a healthy, balanced, and sustainable learning environment, the counseling service underscores the belief that mental well-being is the foundation of lifelong learning and personal growth. By ensuring that students have access to compassionate care and professional support, the university continues to foster a community where everyone can thrive — both in their studies and in life — with resilience, confidence, and a strong sense of well-being.



Quality Education

Rajamangala University of Technology Lanna (RMUTL) and the Sustainable Development Goal 4: Quality Education

Rajamangala University of Technology Lanna (RMUTL) continues to demonstrate a strong and ongoing commitment to Sustainable Development Goal 4 (SDG4), which aims to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. In alignment with this goal, RMUTL expands access to education for students from diverse socio-economic backgrounds, particularly those in rural and underserved areas. The university implements flexible learning pathways through work adult education, Cooperative and Work Integrated Education programs, non-degree programs, and recognition of prior learning (RPL) to ensure that education is accessible to everyone, regardless of age or occupation.

RMUTL emphasizes competency-based education that integrates work-based learning (WbL) and industry collaboration to enhance employability and strengthen links between education and the labor market. By working closely with industries, RMUTL ensures that students and working adults acquire practical, job-ready skills that meet the evolving demands of Thailand's key industrial sectors.

The university also promotes adult learning and continuing professional development by offering upskilling and reskilling programs for workers, technicians, and community members. These initiatives foster lifelong learning and support workforce adaptability in response to technological advancement and economic transformation.

Moreover, RMUTL actively engages in community-based education and research that contributes to sustainable local development, empowering individuals with the knowledge and skills needed for self-reliance and social mobility.

Public-Private and International Partnerships in Education, TVET, and Lifelong Learning Research

Research Center for Technical and Vocational Education and Training (RCTVET) as an active member of the European Training Foundation Network for Excellence (ETF ENE), RMUTL engages in international collaboration and knowledge exchange, contributing to best practices in TVET innovation, competency development, and WbL. These networks enable the university to integrate evidence-based approaches in both education and research, ensuring that curricula are responsive to Thailand's evolving industrial and economic needs. These memberships reinforce RMUTL's role in promoting excellence and evidence-based research in workforce development and lifelong learning.



(a) RCTVET



(b) Certificate of Membership

Fig. 1 Membership to the ETF ENE



Research Center for Technical and Vocational Education and Training (RCTVET) as an active member of the European Training Foundation Network for Excellence (ETF ENE), RMUTL engages in international collaboration and knowledge exchange, contributing to best practices in TVET innovation, competency development, and WbL. These networks enable the university to integrate evidence-based approaches in both education and research, ensuring that curricula are responsive to Thailand's evolving industrial and economic needs. These memberships reinforce RMUTL's role in promoting excellence and evidence-based research in workforce development and lifelong learning.



(a) SiF- Graduated Students



(b) Power BI Training

Fig. 2 SiF Michelin Hatyai

RMUTL has collaborated with 19 private companies, including both SMEs and international corporations such as Michelin Siam Co., Ltd., Betagro Public Co., Ltd., Sanom Co., Ltd., Arthit Ventilators, and Arthit Machinery. These collaborations span various industries and involve a wide range of projects and initiatives aimed at enhancing the quality and relevance of education.

RMUTL continues to strengthen its partnerships through educational research and innovation in the university's management and instructional systems, fostering close collaboration with partner institutions and industries through School-in-Factory (SiF), New Growth Engine projects, Equitable Education Fund (EEF), Cooperative and Work-integrated Education (CWIE).

These initiatives focus on co-developing workforce development systems between higher education institutions and the private sector, with the shared objective of producing high-quality graduates whose competencies align closely with labor market needs. Through this collaboration, RMUTL has been actively conducting research accounting for a total of 10 publications in both national and international journals and conferences.

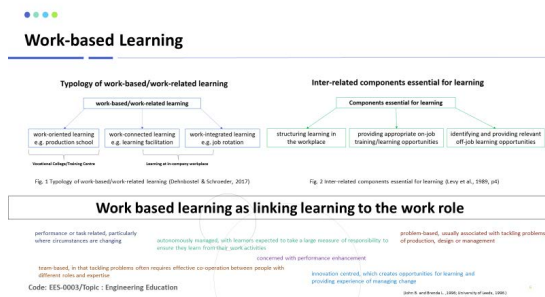
Through joint research, curriculum co-design, and continuous improvement of teaching and learning processes, RMUTL ensures that students gain practical, job-ready skills and adaptability for the modern workplace. This collaborative model not only enhances the employability of new graduates but also contributes to increased industrial productivity and the creation of innovation within the industrial sector, reinforcing RMUTL's mission to deliver education that directly supports sustainable economic and workforce development.

Work-Based and Lifelong Learning Development

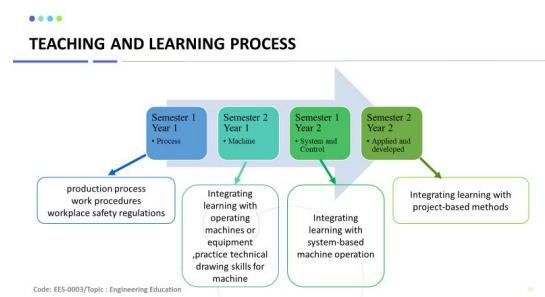
RMUTL is committed to developing WbL and lifelong learning (LLL) systems that empower both students and working adults to acquire practical, up-to-date skills for sustainable careers. The university integrates WbL across academic and technical programs, allowing learners to apply classroom knowledge to real-world industrial contexts. This approach enhances employability, critical thinking, and adaptability—key competencies for success in the 21st-century workforce.



Fig. 3 Role of Work-based Learning in promoting Lifelong learning
(Translated from Yana, W., et al, 2024)



(a) WbL and essential for learning



(b) Teaching and Learning process

Fig. 3 Work-based Learning (Chaiyong, P., et al, 2024)



(a) Upskill and Reskill Training



(b) Hands-on practice

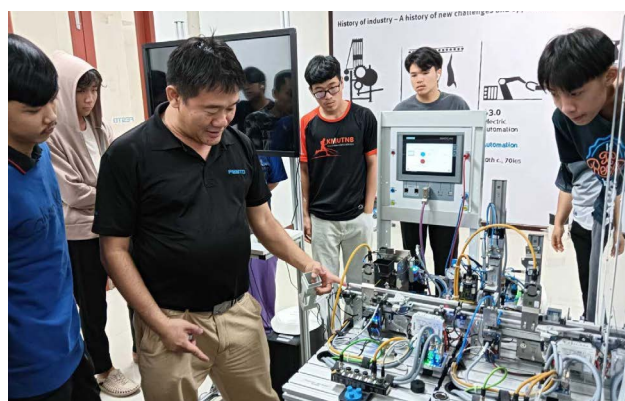
Fig. 4 Work-Adult Education



To expand opportunities for all learners, RMUTL offers flexible and accessible learning pathways through non-degree programs, micro-credentials, short courses, and reskilling/upskilling initiatives. These programs are designed to meet the needs of individuals seeking to enhance professional competencies or transition into new career fields, thereby supporting workforce resilience and lifelong employability. RMUTL continued to advance these initiatives in alignment with SDG 4: Quality Education, promoting inclusive and flexible learning that responds to technological and industrial transformation.

RMUTL implemented a range of innovative short courses and certification programs aimed at empowering learners and strengthening links between education and the labor market. The Certification Program for Street Food Innovation for Entrepreneurs equipped local entrepreneurs and community members with essential knowledge of food safety, hygiene, and innovative business practices, contributing to the development of Thailand's street food sector and local economy.

Likewise, the DAQ and LabVIEW Training Workshop for Measurement and Instrumentation Systems provided practical, hands-on training in digital data acquisition and automation, enhancing technical competencies among students, technicians, and industry professionals. As part of the School-in-Factory (SiF) program at Michelin Prapadaeng, students participated in this engaging workshop hosted by SiF PPD/RMUTL. The training focused on developing participants' skills in designing and implementing industrial measurement and control systems, enabling them to apply theoretical knowledge to real industrial projects. Through this experiential learning approach, RMUTL strengthened the integration between education and industry, fostering workforce-ready graduates equipped with practical expertise in automation and instrumentation.



(a) Automation & Robotic Training



(b) Hands-on practice

Fig. 5 WbL Activities



Quality Education

In parallel, RMUTL introduced specialized industrial upskilling programs such as the Workshop Training for Smart Factory and Smart Farm Systems: Introduction to Human Machine Interfacing (HMI) with Programmable Logic Controller (PLC) Interface for Industrial Applications. This program was designed for experienced technicians transitioning into practical engineers and was conducted under a collaborative project between Rajamangala University of Technology Lanna (RMUTL), King Mongkut's University of Technology Thonburi (KMUTT), and Betagro Group. The workshop emphasized applied learning through hands-on training in HMI and PLC technologies to strengthen participants' competencies in automation and industrial system integration. Through such integrated initiatives, RMUTL reinforces its mission to deliver accessible, industry-relevant, and competency-based education while promoting lifelong learning and equitable access to quality education.

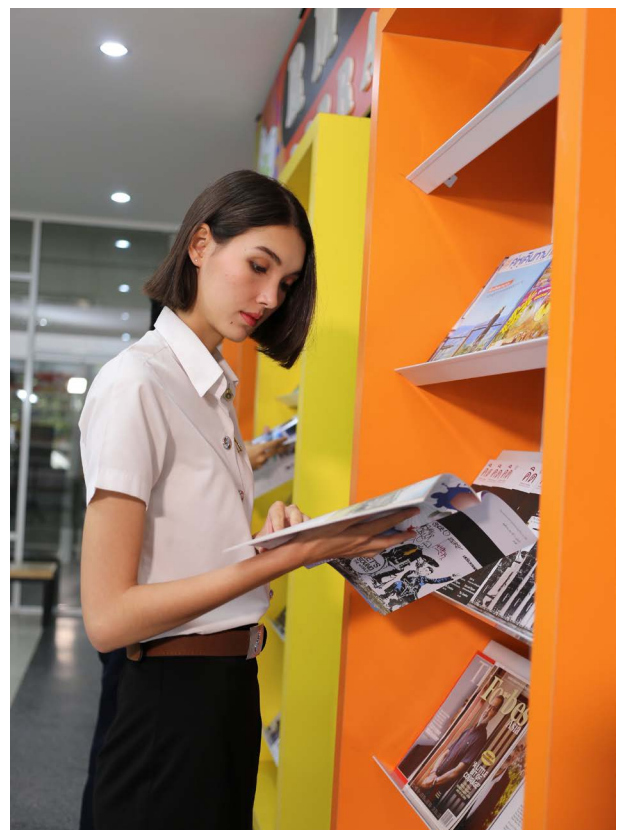


Fig.6 Workshop Training for Smart Factory and Smart Farm Systems

Advancing Inclusive and Resilient Education through Partnerships

RMUTL promotes inclusive and resilient education systems through collaboration aligned with SDG4 and SDG17. The university integrates educational research and innovation into its management and instructional systems to ensure equitable access and sustainable learning outcomes. RMUTL works closely with partner institutions and industries to develop joint workforce development systems that prepare graduates with skills aligned to labor market demands. Collaborative partnerships support WbL, LLL, teacher training, continuous curriculum improvement, and research.

These partnerships enhance graduate employability, industrial productivity, and innovation, while fostering lifelong learning opportunities. RMUTL's efforts strengthen education-industry linkages and promote sustainable human capital development—contributing directly to achieving SDG4: Quality Education and SDG17: Partnerships for the Goals.





“

Ensure inclusive and equitable
quality education and promote
lifelong learning opportunities for all

”





Gender Equality

Pride Month: Celebrating Diversity and Advancing Gender Equality at RMUTL



Rajamangala University of Technology Lanna (RMUTL) proudly embraces the United Nations Sustainable Development Goal (SDG) 4.7, which aims to ensure that all learners acquire the knowledge and skills needed to promote sustainable development. This includes education for sustainable lifestyles, human rights, gender equality, the promotion of a culture of peace and non-violence, global citizenship, and appreciation of cultural diversity and its contribution to sustainable development.

In line with this commitment — and in strong support of SDG 5: Gender Equality — RMUTL participated in Chiang Mai Pride 2024, the first official Pride event in Thailand. The university's delegation, comprising staff members, the student council, and student clubs, joined the celebration held from 1–2 June 2024, along the route from Chang Klan Road (Night Bazaar) to Tha Phae Gate in Chiang Mai.

This participation demonstrates RMUTL's dedication to promoting equal rights, inclusivity, and safety for all, regardless of gender identity or sexual orientation. Pride Month, celebrated globally each June, honors the resilience and contributions of the LGBTQ+ community while commemorating the struggle for equality and protection from discrimination and violence.

The event featured the Pride Parade, live music, performances by LGBTQ+ groups, the Chiang Mai Pride Ambassador 2024 contest, and other cultural showcases. A major highlight was the collective call for the Thai government to enact laws protecting human rights and promoting gender equality — reinforcing RMUTL's advocacy for diversity, inclusion, and empowerment.

Through active engagement in Pride Month, RMUTL strengthens its alignment with SDG 5 by fostering an academic environment that:

- Encourages gender equality and inclusivity in education and community life.
- Raises awareness of human rights and social justice among students and staff.
- Promotes diversity and respect as core institutional values contributing to sustainable development.

By integrating these principles into its learning and community engagement, RMUTL not only supports SDG 4.7 and SDG 5 but also contributes to its recognition in the Times Higher Education Impact Rankings as a university that actively promotes equality, inclusivity, and sustainability.



RMUTL with SEAMEO and UN Panel Discussion on “Strengthening Women’s Leadership in STEM at the ASEAN Level.”

Rajamangala University of Technology Lanna (RMUTL), in collaboration with the SEAMEO STEM-ED Center, successfully organized the Experts Meeting and Knowledge Exchange Forum on STEM Education (Day 3) on 7 February 2024. The event brought together STEM and TVET (Technical and Vocational Education and Training) experts from across ASEAN to exchange knowledge and discuss strategies for integrating STEM principles into vocational and technical education systems.

The meeting aimed to develop practical guidelines that enhance the quality and relevance of professional education, equipping graduates with the skills required to meet new educational standards and respond to the evolving demands of the 21st-century workforce.

Asst. Prof. Dr. Siraprapa Chainetr, Assistant to the President of RMUTL, presided over the opening ceremony and warmly welcomed participants at the Thongkwao Conference Room and through online platforms. The forum featured international presentations on “STEM in TVET” and collaborative discussions that explored innovative teaching models and best practices across ASEAN member countries.

A highlight of the session was the panel discussion on “Strengthening Women’s Leadership in STEM at the ASEAN Level.” The dialogue emphasized the need to empower women and girls in science, technology, engineering, and mathematics, promoting inclusive participation, leadership, and equal access to opportunities in these traditionally male-dominated fields.

Through this initiative, RMUTL and SEAMEO STEM-ED actively contribute to the advancement of Sustainable Development Goal 5 (Gender Equality) by:

- Encouraging female representation and leadership in STEM and technical education sectors.
- Providing a platform for regional collaboration and knowledge exchange on gender-responsive STEM education policies.
- Supporting educational practices that empower women to contribute to innovation and sustainable development.





Gender Equality

RMUTL Advances Gender Equality through Gender-Inclusive Graduation Attire Policy

In a progressive move towards inclusivity and gender equality, Rajamangala University of Technology Lanna (RMUTL) has implemented a landmark policy allowing transgender and gender-diverse students to choose graduation attire that aligns with their gender identity. This initiative marks a significant step in ensuring that all graduates can express their authentic selves during one of the most meaningful milestones in their academic lives.

The Gender-Inclusive Graduation Attire Policy reflects RMUTL's commitment to upholding the principles of equality, respect, and human dignity. By accommodating diverse gender identities in official university ceremonies, RMUTL fosters a sense of belonging, pride, and mutual respect within its academic community. This policy serves as a tangible expression of the university's dedication to creating a supportive and inclusive atmosphere for all students—one that celebrates diversity as a source of strength and unity.

According to the official university regulations, graduates and postgraduates whose gender identity or expression differs from their sex at birth and who wish to dress according to their current gender expression may do so through an official request process. Applicants must submit a written request in person at the Division of Student Development or the Education Division of their respective provincial campus on the day of reporting in person. The request form can be downloaded from <https://graduation.rmutl.ac.th/>. Each campus division compiles and reviews the applications before forwarding them to the Ceremony Department for consideration and approval, which must be completed by 12 February 2025. Once permission is granted, graduates must adhere strictly to the attire guidelines issued by the Ceremony Department to ensure uniformity and respect for the royal conferment ceremony.

By formalizing this policy within the official graduation announcement, RMUTL demonstrates that gender inclusivity is not merely encouraged but institutionally protected. This regulation aligns with Sustainable Development Goal 5 (Gender Equality) and showcases the university's leadership in promoting social inclusion and equal rights in higher education.

"Translation of Thai Regulations (Section 7)

7. Graduates and postgraduates whose gender identity or gender expression differs from their sex at birth and who wish to dress according to their current gender expression:

7.1 Must submit a written request in person at the Division of Student Development or the Education Division of their respective provincial campus on the day of reporting in person. The request form can be downloaded from <https://graduation.rmutl.ac.th/>.

7.2 The Division of Student Development or the Education Division of each provincial campus will collect the information, give recommendations, and forward the requests to the Ceremony Department for consideration and approval by 12 February 2025.

7.3 Those who are permitted by the university to dress according to their gender identity that differs from their birth sex when receiving the Royal Degree must strictly follow the guidelines provided by the Ceremony Department."

Through such forward-thinking initiatives, RMUTL exemplifies its role as a transformative educational institution—one that nurtures not only academic excellence but also empathy, equality, and the empowerment of every individual, regardless of gender identity or sexual orientation.





“
Achieve gender equality and empower all
women and girls
”





Clean Water & Sanitation

Water is a fundamental resource essential to human survival, and access to clean drinking water is widely recognized as a basic human right. Nevertheless, many populations around the world continue to experience limited access to safe and sufficient water for consumption and daily use. Rajamangala University of Technology Lanna (RMUTL) actively addresses this global challenge by promoting initiatives that enhance access to clean water and sanitation within the regions where its campuses are situated. The university acknowledges its pivotal role in advancing sustainable community development through education, research, and community engagement focused on effective water management and sanitation systems.

Through a range of programs and outreach activities, RMUTL seeks to strengthen community capacity in sustainable water management by providing practical knowledge, technical training, and awareness of water conservation practices. By fostering collaboration among local residents, governmental organizations, and other stakeholders, the university contributes to the long-term sustainability of regional water resources. These efforts not only improve the quality of life for community members but also support the broader objectives of environmental sustainability and public health.

Clean Water in the community

Rajamangala University of Technology Lanna's Community Technology Transfer Center (CTTC) organized a program to promote sustainable water practices through the "Hydro Pure" innovation project. Conducted between 1–6 December 2024, the initiative aimed to transfer knowledge and technology for clean water production to communities in Nan and Chiang Mai provinces. Participants learned about modern water purification systems, including ultrafiltration (UF), reverse osmosis (RO), and UV disinfection, ensuring that residents not only gained access to clean water but also understood the principles of effective and sustainable water management.

This project aimed to empower local people with practical, science-based learning experiences. Through workshops and hands-on demonstrations, CTTC fostered community engagement in water conservation, treatment, and maintenance—encouraging responsible resource use and resilience against water scarcity. The collaboration reflects Thailand's ongoing commitment to SDG 6: Clean Water and Sanitation, demonstrating how education and innovation can come together to strengthen local capacity for good water management.

In addition, RMUTL hosted a series of educational workshops in September 2024 that emphasized sustainable water management, conservation, and innovation. These programs brought together students, local leaders, and community members to share knowledge and develop skills in maintaining local water systems effectively. By integrating academic expertise with hands-on learning, RMUTL not only supports community empowerment but also strengthens regional efforts toward achieving SDG 6: Clean Water and Sanitation. This approach ensures that local communities are equipped with both the understanding and the tools necessary to manage water resources sustainably for future generations.





Off-campus water conservation support

RMUTL has undertaken several community-based initiatives to promote sustainable water management beyond its campuses. One notable effort involves RMUTL's participation in the Mae Kuang Watershed Network, a collaborative project aimed at protecting and restoring local water sources through activities such as check-dam construction, reforestation, and soil erosion prevention. These initiatives not only help conserve water resources but also strengthen community awareness and participation in managing their local ecosystems effectively.

In addition, RMUTL has joined hands with local government agencies and private organizations in the Ban Thung Yao and Muang Khong Model Villages to restore headwater forest areas covering over 766 acres. This restoration effort ensures a sustainable supply of clean water for nearby communities while preserving biodiversity and improving climate resilience. By extending its work off campus, RMUTL demonstrates its commitment to practical water conservation, engaging communities directly in hands-on learning and environmental stewardship. These collaborations exemplify the university's mission to integrate education, research, and community development in pursuit of the SDG 6: Clean Water and Sanitation and long-term regional sustainability.





Clean Water & Sanitation

Cooperation on water security

RMUTL has led collaborative initiatives that reflect cooperation with local, regional, national, or global governments on water security. The university, particularly through its Chiang Rai campus, has partnered with the Engineering Institute of Thailand (Council of Engineers) to address critical water-related challenges in the northern region. Joint efforts include on-site surveys, flood risk assessments, and water infrastructure planning aimed at enhancing the resilience of local communities against droughts and flooding. In another significant step, RMUTL took part in an MOU and national forum organized by the National Research Council of Thailand (NRCT), which focused on advancing the nation's strategies for clean air and water security. These initiatives highlight the university's proactive engagement in national water security policy and research.

Through these collaborations, RMUTL not only contributes technical expertise but also provides academic support and research-based solutions that strengthen Thailand's water governance frameworks. The university's researchers and students work alongside local authorities to design practical water management models tailored to community needs, ensuring the integration of modern science with traditional practices. This cooperation supports the government's long-term water resource management plan, which emphasizes sustainability, risk prevention, and equitable access to clean water.

Moreover, RMUTL's partnerships extend to community-level water projects, such as integrated water distribution systems, reservoir rehabilitation, and community education programs that promote responsible water use. These initiatives align with Thailand's national development agenda and the SDGs Goal6: Clean Water and Sanitation by ensuring that water security is not just a policy goal but a shared responsibility across all sectors. Through its continued collaboration with local, regional, and national agencies, RMUTL exemplifies the role of higher education institutions as key contributors to sustainable water security and environmental stewardship in Thailand.





Support in time of crisis: Distributing flood relief



RMUTL has extensively involved in flood relief and water resource management activities across northern Thailand. On 5 September 2024, RMUTL's leadership personally distributed relief bags and essential supplies to flood-affected households, demonstrating immediate community support and close coordination with local authorities to address urgent water-related crises.

In Phitsanulok province, RMUTL conducted field surveys of flood-impacted homes to assess damages and plan for sustainable recovery. These assessments were carried out in collaboration with local government agencies, enabling targeted interventions that prioritize both community safety and water management infrastructure improvements.

The university also partnered with provincial disaster management offices in Chiang Rai to provide essential supplies and water-related support, highlighting RMUTL's ongoing commitment to strengthening regional water security networks. Such collaborations not only address immediate needs during flood events but also support long-term strategies for flood mitigation and water resource sustainability.

Beyond emergency response, RMUTL organized community workshops on water management and hygiene practices, aligning with national government initiatives to promote resilient water use and flood preparedness. By combining hands-on relief operations with educational programs, RMUTL demonstrates a comprehensive approach to water security, fostering collaboration among local residents, regional authorities, and national agencies to enhance sustainable water management across vulnerable areas.

These initiatives illustrate RMUTL's multi-faceted role in cooperating with governmental bodies at multiple levels—local, regional, and national—ensuring that communities not only receive immediate assistance during floods but also gain long-term knowledge and infrastructure support to manage water resources effectively. By integrating relief, assessment, education, and collaboration, RMUTL actively contributes to Thailand's broader water security and resilience goals, in line with the SDG 6 objectives





Affordable & Clean Energy

Introduction

Rajamangala University of Technology Lanna (RMUTL) has committed itself to advancing sustainability in higher education through applied research, regional development, and technology transfer. Guided by the United Nations Sustainable Development Goals (SDGs), RMUTL has prioritized SDG 7: Affordable and Clean Energy, which focuses on ensuring access to affordable, reliable, sustainable, and modern energy for all.

Between January 2024 and March 2025, RMUTL implemented projects, research, and policies aimed at promoting energy efficiency, renewable energy, and low-carbon innovation. The university's sustainability activities align with the Times Higher Education (THE) Impact Ranking indicators, covering:

- Energy-efficient renovation and building
- Building energy upgrades
- Carbon reduction processes
- Energy efficiency planning and audits
- Clean energy research and policy support
- Community and industry engagement in clean energy

RMUTL's sustainability efforts are reflected across its research, stewardship, teaching, and outreach missions. This report summarizes key achievements and ongoing initiatives during the reporting period.

Striving towards Energy Efficiency

Rajamangala University of Technology Lanna (RMUTL) has adopted a comprehensive energy efficiency and conservation policy across its main and Chiang Rai campuses, aiming to significantly reduce overall energy consumption. The policy emphasizes effective energy management, adherence to efficiency standards, and the promotion of responsible energy practices among students, faculty, and staff. Key actions include the mandatory shutdown of air conditioning units when not in use, and clear scheduling of their operation in meeting rooms—air conditioning systems must be switched on shortly before meetings and turned off immediately afterward. To optimize usage, air conditioning is permitted only between 10:30 a.m. and 4:30 p.m., with a lunch-hour pause from 12:00 p.m. to 1:00 p.m. In addition, all units must be set at a temperature no lower than 25°C, in line with national energy conservation standards.

To further advance energy efficiency and sustainability, RMUTL is implementing structural improvements such as installing window and door screens to enhance natural ventilation and minimize dependence on air conditioning. These measures not only reduce energy use but also improve indoor air quality and comfort. The university has also introduced usage control measures for appliances including refrigerators, water coolers, and electric kettles, with designated operating hours to prevent unnecessary power consumption. Through these integrated efforts, RMUTL is cultivating a culture of sustainability and environmental stewardship, reinforcing its commitment to achieving long-term energy efficiency, carbon reduction, and sustainable campus development.





Moving towards Carbon Neutrality

RMUTL has taken steps towards achieving carbon neutrality by organizing many projects, one such project was the “Integrated Knowledge Development for SDGs Dissemination toward Carbon Neutrality University Ranking (Carbon Neutral of University)”. The project aims to advance SDG7 (Affordable and Clean Energy) and SDG13 (Climate Action) by enhancing knowledge and understanding of standards, requirements, and tools related to carbon and greenhouse gas management. Participants were encouraged to develop collaborative energy management strategies for buildings and offices, promoting the transition toward green buildings and sustainable campus operations.

Held from August 20–21, 2024, the project was part of RMUTL’s “Transforming University Policy”, which supports Thailand’s long-term commitment to achieving carbon neutrality. The program featured lectures by Dr. Pennapa Tonrungsklang and Mr. Thanasak Sirichan from the Nakhonping Energy Research and Development Institute, Chiang Mai University, who shared insights on energy innovation and carbon management. Additionally, Associate Professor Dr. Pracha Yuenyongkul led a workshop on stakeholder participation to promote internal collaboration in driving the university’s carbon reduction initiatives. This initiative highlights RMUTL’s proactive policy direction toward carbon neutrality, emphasizing integrated learning, community engagement, and sustainable development practices within the university system.



Achieving Renewable Energy through younger generations

In February 2024, promoting energy conservation and clean energy within local communities has become a key initiative, particularly through educational programs aimed at young learners. The Faculty of Engineering at Rajamangala University of Technology Lanna, Nan campus, has actively implemented this goal by organizing a hands-on training activity on renewable energy for grade 7 students at Satri Sri Nan School. This initiative promotes helping local communities save energy and providing knowledge on clean energy by equipping students with the understanding and practical skills necessary to use energy efficiently in their daily lives.

The program combined lectures with interactive learning stations, encouraging active participation and experiential learning. By engaging students in a dynamic and enjoyable educational environment, the project not only strengthens their

awareness of renewable energy technologies but also fosters a long-term culture of energy conservation. In the context of global warming and climate change, such initiatives are crucial in cultivating informed future generations who understand the importance of reducing energy consumption and transitioning to clean energy sources.

Moreover, this activity reflects the broader mission of supporting local communities through knowledge dissemination and sustainable practices. By targeting schools and local youth, the project ensures that energy-saving and clean energy concepts penetrate the community level, creating a ripple effect that can influence households, neighborhoods, and eventually the broader regional energy landscape. This effort exemplifies how educational outreach aligns with the 2024 objective of promoting energy efficiency and clean energy use within local communities.



Affordable & Clean Energy



Energy Efficiency: Concept and Application

On September 19, 2024, third-year architecture students from the Architecture Program, Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL) — Ms. Jariyaporn Chatsuriyakorn, Ms. Piangnapa Buntan, and Mr. Apirak Saikham — under the supervision of Ms. Supawan Pandi, received an honorable mention award in the Energy-Efficient House Design Competition organized by the Home Builder Association during the Home Builder and Materials Expo 2024 at IMPACT Muang Thong Thani. Their innovative design emphasized sustainable architecture principles, integrating passive design strategies, renewable energy use, and environmentally friendly materials to promote energy-efficient buildings.

This achievement directly supports the national and global objective to upgrade buildings to higher energy efficiency, showcasing how academic innovation contributes to real-world sustainable development goals. By focusing on the design of homes that minimize energy consumption and optimize natural resources, RMUTL's students demonstrate the vital role of education in shaping future architects who can respond to energy challenges in the built environment. Furthermore, this success reinforces RMUTL's commitment to promoting green building design, sustainable urban development, and the Bio-Circular-Green (BCG) economy model, paving the way for the creation of energy-efficient buildings that enhance living quality while reducing environmental impact.





Low carbon Tourism: Waste management for Highland Tourism Start-ups

In 2024, the initiative to support low-carbon innovation aligns closely with the development of community-based low-carbon tourism models in Chiang Rai. The project led by Rajamangala University of Technology Lanna focuses on enhancing waste management in highland tourism areas, aiming to support local entrepreneurs and businesses in creating environmentally sustainable services. By integrating appropriate innovations and technologies, the project addresses critical challenges in solid waste management, fostering the growth of green communities, schools, and eco-friendly accommodations. This initiative exemplifies the support for startups and local enterprises that promote a low-carbon economy through practical, community-centered solutions.

The approach demonstrates how assistance for low-carbon innovations can extend beyond technological development to social and environmental impact. Utilizing participatory management principles (Public/Private/People/Partnership) and the ARC framework (Adjust, Reduce, Change), the project encourages behavioral shifts among residents and tourists, reduces waste, and enhances environmental awareness. This model not only supports entrepreneurial activities in the tourism sector but also aligns with national objectives to nurture low-carbon technologies and sustainable economic practices, reflecting the broader indicator of providing support to businesses developing and promoting low-carbon innovations in 2024.

Outreach to the industry

The energy efficiency services for industry indicator in 2024 reflects Thailand's ongoing commitment to promoting sustainable energy solutions and enhancing workforce capabilities in the clean energy sector. A recent initiative by Rajamangala University of Technology Lanna (RMUTL), in collaboration with the Institute for Skill Development 19 Chiang Mai, demonstrates this direction through a training program on installation and maintenance of solar cell systems. Conducted from February 17–21, 2025, the course provided both theoretical and practical knowledge on energy efficiency, solar energy systems, electrical measurement tools, and safety in the workplace. This aligns with national strategies to strengthen energy efficiency services for industry, particularly in sectors adapting to modern, low-carbon technologies.

This program also supports the broader goals of sustainable development, especially SDG 7 (Affordable and Clean Energy) and SDG 8 (Decent Work and Economic Growth), by empowering independent workers, state welfare cardholders, and returning laborers with practical skills in renewable energy. Participants learned how to design, install, and maintain solar photovoltaic (PV) systems, enabling them to apply this knowledge in industrial and community settings. Through such initiatives, RMUTL enhances its mission as a "University of Innovation for the





Affordable & Clean Energy

DC Charger Technology: Workshop for the Industry

Advancing technologies and knowledge enhance energy management and sustainability across the industrial sector. In line with this, RMUTL through its Research and Development Institute, organized the “DC Charger Technology” training program from February 3–4, 2025, at the Modern Automotive Laboratory, Doi Saket, Chiang Mai. The program focused on bidirectional charging technology (Vehicle-to-Grid: V2G), which enables the flow of electricity between electric vehicles (EVs) and the power grid. This initiative not only provided knowledge to faculty members, students, and EV industry entrepreneurs, but also supported the development of energy efficiency services for industry, especially in the growing field of clean energy and electric mobility.

This training reflected RMUTL’s commitment to energy innovation, promoting clean and efficient energy use through smart charging systems and real-time power management. By collaborating with KBM Technology and P.G. Intergroup, the program strengthened industry-academic partnerships and encouraged the practical application of energy-efficient technologies in industrial and commercial contexts. Moreover, it contributed to enhancing energy efficiency services by fostering skills in designing, developing, and optimizing DC chargers that support sustainable power distribution. Such efforts play a key role in Thailand’s transition toward a low-carbon economy, reinforcing the integration of energy efficiency services for industry with research, innovation, and workforce development for sustainable growth.





Charging towards the future of Energy Efficiency



The Clean Energy System Research Unit of RMUTL organized a training program titled “Battery Charging Station Technology for Electric Vehicles: Learning and Development” from March 6–8, 2024, at RMUTL, Doi Saket, Chiang Mai. The program aimed to enhance participants’ understanding of electric vehicle (EV) charging station technology, including design, operation, and maintenance principles. It specifically targeted teachers and instructors from RMUTL and universities across the country, empowering them to transfer knowledge to students and local communities while advancing energy efficiency awareness at the grassroots level.

This initiative represents RMUTL’s commitment to local community outreach for energy efficiency, as it bridges the gap between academic research and real-world applications in clean energy. Through lectures, hands-on simulations, and collaborative discussions, participants learned how to apply new technologies to support Thailand’s transition toward sustainable and energy-efficient transportation systems. Moreover, by integrating this knowledge into education and local innovation projects, the program helps expand energy-efficient practices beyond the university, strengthening community resilience and supporting the Bio-Circular-Green (BCG) economy. Such outreach initiatives are crucial in creating a knowledgeable network of educators and practitioners who can drive local and regional progress toward energy efficiency and sustainable development.

Building Green University Systems

RMUTL highlights the importance of extending knowledge and practical approaches to energy conservation beyond institutional boundaries, engaging both university personnel and surrounding communities. In alignment with this goal, the Research and Development Institute of RMUTL organized a workshop on the Green University System and Environmental, Safety, and Occupational Health Management. The event was part of the project titled “Development of Energy, Environmental, Occupational Health, and Safety Management Systems toward a Green University.” The workshop featured Mr. Pichet Thanin, Dean of the Faculty of Engineering and Technology, North-Chiang Mai University, and an expert in energy conservation and electrical power engineering, who shared valuable insights on energy-efficient building management and sustainable power use.

This activity demonstrated RMUTL’s proactive role in community outreach for energy efficiency, aiming to raise awareness among staff and participants about the importance of responsible energy consumption. The discussions emphasized that energy conservation is not merely about reducing use but about using energy efficiently and appropriately—applying the right amount of power at the right time while considering environmental impacts. By encouraging behavioral change and promoting best practices in energy efficiency and environmental sustainability, the university fosters a culture of energy-consciousness that can extend to local communities. Such outreach initiatives strengthen cooperation between academia and society, supporting the broader national effort to build green universities and energy-efficient communities that contribute to sustainable development and carbon reduction goals.





Affordable & Clean Energy



Academic collaborations to strengthen the understanding of Clean Energy Technology Phayao College of Agriculture and Technology

The collaborative activities between Rajamangala University of Technology Lanna (RMUTL) and the Phayao College of Agriculture and Technology aimed to promote knowledge sharing and sustainable technological development. On December 12, 2024, the Clean Energy System Research Center and the Under the Royal Shade Project Group of RMUTL welcomed teachers and students from Phayao College of Agriculture and Technology for an academic meeting and study visit. The discussion centered on clean energy technology and smart farm technology, highlighting innovations such as mobile solar-powered water pumping systems for farmers, precision agriculture greenhouses, and electrical power control systems to reduce industrial peak demand.



The visit also included a learning session at the Sufficiency Economy Learning Center under the Royal Initiative Knowledge Development Project, which integrates technology, innovation, and community participation. Participants explored model projects such as organic rice fields, crop rotation and alternative plant plots, edible garden fences, and agricultural technology demonstration areas. The integration of King's Philosophy of Sufficiency Economy with Social Lab learning models allows students and community members to gain hands-on experience, deep understanding, and the ability to apply energy-efficient and sustainable practices in their local contexts.



Through such initiatives, RMUTL continues to strengthen its mission in education, research, and academic services aligned with the Sustainable Development Goals (SDGs)—particularly SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action). By supporting sustainable agriculture, clean energy innovation, and energy-efficient technologies, the university fosters economic, social, and environmental balance within local communities.





King Mongkut's University of Technology Thonburi

On January 27, 2024, the Clean Energy Research Center, RMUTL Doi Saket, welcomed delegates from King Mongkut's University of Technology Thonburi for a visit, academic exchange, and joint exploration of clean energy technology development. During the meeting, RMUTL presented key research and academic service projects including the mobile solar-powered water pumping system for farmers, intelligent greenhouse systems, and power control systems to reduce peak electricity demand in industrial operations.

Collaborative efforts included installing and relocating coffee quality grading machines for eight local community enterprises with a combined coffee output of approximately 350 tons valued at over 50 million baht, developing master plans for community-based agricultural innovation, and designing smart greenhouses, packaging facilities, and cold storage systems. These joint initiatives not only exemplify effective university collaboration but also highlight the integration of clean energy and smart technologies into community development.

Through these partnerships, RMUTL and KMUTT are advancing Thailand's mission of achieving energy efficiency and sustainable local development. The integration of research, innovation, and academic services in community-based projects supports the goals of SDG 7 (Affordable and Clean Energy) and SDG 13 (Climate Action), while fostering social engagement through technology transfer.

Conclusion

Between January 2024 and March 2025, RMUTL strengthened its position as a regional leader in clean energy research, technical education, and community engagement.

The university's sustainability journey under SDG 7 demonstrates notable progress in educating and training students and professionals for renewable and EV technologies, engaging communities and industries in energy awareness and sustainable practices.

Looking ahead, RMUTL's next phase will focus on establishing measurable carbon and energy reduction targets; expanding renewable energy generation and procurement; and launching structured industry and start-up support for low-carbon innovation.

RMUTL remains committed to advancing affordable and clean energy for Northern Thailand and beyond — transforming research into real-world impact and contributing to Thailand's path toward a sustainable, low-carbon future.





Decent Work & Economic Growth

Rajamangala University of Technology Lanna (RMUTL) envisions itself as a leading professional and technological university, producing practice-oriented graduates to enhance the quality of life for communities, localities, and society sustainably. The university's three main missions align with Sustainable Development Goal (SDG) 8 :

Provide professional and technological education and train vocational teachers at both national and international levels, focusing on producing practice-oriented graduates with integrity, ethics, self-reliance, and the capability to serve as academic resources for the country, region, and community, both in the public and private sectors.

1. Conduct research that creates and applies knowledge to develop innovations or intellectual property addressing national strategies and the needs of society, communities, the public and private sectors, and the nation.
2. Offer academic services to society, transferring knowledge in science, technology, and innovation aligned with the university's professional and technological context to meet local, community, and societal needs.

In 2024, Rajamangala University of Technology Lanna partnered with government agencies, private organizations, and both domestic and international educational institutions to implement academic and research projects. These initiatives focused on enhancing the skills, knowledge, and competencies of students and personnel, while fostering social responsibility, to produce high-quality graduates ready to meet the demands of the labor market.

The university also supported all faculties in conducting research and providing academic services that transfer vocational and technological expertise to communities. These efforts contributed to job creation, the improvement of community products, and the development of local enterprises and networks. Overall, the programs aimed to advance human resources, workforce capabilities, and regional development, aligning with national priorities and promoting sustainable learning.

Enhancing Staff Well-being and Capacity Policy

Rajamangala University of Technology Lanna (RMUTL) is committed to improving staff quality of life while fostering collaboration, equality, and morale. The university promotes well-being across physical, mental, social, and environmental dimensions through fair compensation, provident funds, career advancement opportunities, safe working conditions, recreational facilities, and programs for professional development and community engagement.

In line with SDG 8 on promoting decent work and economic growth, RMUTL implements initiatives to strengthen staff capacity, including short- and long-term development plans, training, study visits, and support for further education. Mechanisms and incentives are provided to encourage research, academic services, scholarly output, and collaborative learning networks. These efforts aim to build a skilled, motivated, and resilient workforce capable of contributing to the university's mission, driving innovation, and supporting sustainable growth.

Faculty and Staff Council

The university has appointed faculty representatives elected from all six areas of the institution. Their role is to serve as a central hub for exchanging opinions within the university community, proposing constructive approaches for systematic development. They advocate for career stability and improved quality of life for university personnel, promote professional development, and act as representatives for receiving feedback and suggestions, as well as disseminating information related to personnel. The Faculty and Staff Council meets every two months to discuss various issues. The council chair reports the findings to the university president and the university council, monitors the implementation of initiatives, and communicates updates to the personnel.



Direct Line to the University President: General Complaint Platform

The university has established an online direct line to the president at <https://www.rmutl.ac.th/hotline> and an online platform for general complaints at <https://www.rmutl.ac.th/complaint>. These channels are designed to facilitate communication among students, faculty, staff, and stakeholders, allowing them to submit feedback, suggestions, complaints about issues, and reports of misconduct. Dedicated formation is received, it will be presented to the university president for consideration and action. Feedback will be communicated back to the provided email or phone number. Alternatively, individuals can submit their concerns directly at the central office, located on the second floor of the Office of the President at Rajamangala University of Technology Lanna.

From January 2024 to March 2025, RMUTL implemented a series of initiatives to enhance student and staff competencies, foster entrepreneurship, and support community development, aligning with SDG 8 on promoting decent work and economic growth.

Personal Development Project

1. Promoting Employee Well-being: Annual Staff Health Check-up

Rajamangala University of Technology Lanna organized the Annual Staff Health Check-up on March 4, 2024, at the General Education Building, 1st Floor.

The program aimed to ensure the physical and mental well-being of university staff, enabling them to perform their duties efficiently and effectively. A total of 84 staff members participated in the health screening, which included personalized consultations and guidance on maintaining good health.

This program supports the university's commitment to promoting a healthy and productive workforce, enhancing overall staff performance, and contributing to a sustainable





Decent Work & Economic Growth

2. Staff Development Seminar to Enhance Student Affairs Personnel Competencies

Rajamangala University of Technology Lanna, through the Student Development Division, organized the “Knowledge Exchange and Capacity Building Seminar for Student Affairs Personnel” for the fiscal year 2024 from April 25–26, 2024, at Busnamtong Hotel, Lampang.

The seminar gathered staff from faculties, colleges, and education divisions across all campuses to develop knowledge, understanding, and skills in student affairs in a unified direction. Through knowledge-sharing activities and workshops, participants focused on key areas including certification of extracurricular activities, allocation of student activity fees, student development funds, student discipline, promotion of desired graduate attributes, and strategies to foster entrepreneurial skills among students.



3. RMUTL Organizes “Academic Position Clinic” to Enhance Quality Academic Advancement

Rajamangala University of Technology Lanna organized the “Academic Position Clinic” from June 17–19, 2024, at Furama Hotel, Chiang Mai. The workshop aimed to guide faculty members on achieving academic positions, enhancing research and textbook writing skills, and effectively integrating AI tools into their academic work.

The program provided participants with knowledge on publishing research and textbooks in both science and social science fields, as well as applying for academic positions in innovation-focused areas. Attendees gained practical guidance to develop high-quality academic outputs suitable for positions such as Assistant Professor, Associate Professor, and Professor.

Through this initiative, RMUTL seeks to support professional growth, foster skilled human capital, and ensure that faculty research and teaching meet quality standards, ultimately strengthening the university’s contribution to education and workforce development.





4. Staff Development with NAS Grooming Clinic Proposal Program

Rajamangala University of Technology Lanna, through the Research and Development Institute, organized the NAS Grooming Clinic Proposal activities from July 16 to 31, 2024, across multiple campuses: Lampang, Chiang Rai, Chiang Mai, Tak, and Phitsanulok.

The program aimed to enhance the research proposal skills of newly appointed academic and support staff. Participants received guidance, feedback, and recommendations to improve the quality of their project proposals. This initiative is part of RMUTL's effort to develop research and innovation competencies through integrated teaching, research, and academic services for the 2024 fiscal year.



5. Workshop on Academic Career Advancement for RMUTL Academic Staff

Rajamangala University of Technology Lanna organized a workshop titled “Targeted Academic Staff Development” on September 13, 2024, at the Ratcharat Meeting Room, 2nd Floor, Business Administration 3 Building, Faculty of Business and Liberal Arts.

The program aimed to support academic staff in preparing for positions such as Assistant Professor, Associate Professor, and Professor. Participants received guidance on effective strategies for developing academic work, including research, publications, and teaching materials, and learned best practices for applying knowledge and experience to enhance student learning and contribute to academic services.

This program supports the university's goal of fostering highly skilled academic personnel who can advance quality education, generate impactful research, and strengthen a productive, competent, and resilient workforce, aligning with SDG 8 on promoting decent work and economic growth.





Decent Work & Economic Growth

6. Workshop on “Leadership Skill Enhancement” to Develop Staff Capabilities

Rajamangala University of Technology Lanna organized a workshop titled “Leadership Skill

Enhancement” from November 6–7, 2024, at Racha Resort, Mae Rim District, Chiang Mai.

The program aimed to develop the leadership and management capabilities of university staff, enabling them to plan, manage, and inspire their teams effectively. Participants engaged in activities that enhanced their understanding of quality leadership roles and how to set success indicators for organizational tasks.

This initiative supports the university’s goal of fostering highly skilled personnel who can drive sustainable growth and contribute to a productive, efficient, and resilient workforce, aligning with SDG 8 on promoting decent work and economic growth.



Support Job Creation, Employment, and Community Development Policy

Rajamangala University of Technology Lanna collaborates with government agencies, private sectors, and educational institutions nationally and internationally to enhance the skills, knowledge, and social responsibility of students and staff, producing practice-oriented graduates ready for the labor market. Faculties are encouraged to conduct research and provide academic services that generate jobs, improve community products, and strengthen local economies.

Under a 5-year action plan (2023–2027), the university promotes entrepreneurship and community development to support employment opportunities:

1. Tech & Innovation Entrepreneurs – Integrating technology, innovation, and local wisdom to develop entrepreneurs who enhance productivity, economic sustainability, and community value.

2. Curriculum and Learning Integration – Emphasizing project-based learning to develop students’ skills in business management, marketing, and innovation.

3. Startup Ecosystem – Establishing incubation centers for ventures from students and communities, including the “Creative Lanna” program for culturally-based and technological entrepreneurship.

4. Industry, Business, and Community Collaboration – Partnering with SMEs, local organizations, and communities to foster knowledge development, create quality employment, and implement projects that benefit local communities.

This policy ensures that RMUTL contributes to sustainable economic growth by nurturing capable graduates, supporting entrepreneurial ventures, and strengthening workforce development.



Support Job Creation, Employment, and Community Development Projects

1.RMUTL Business Incubation Center Promotional Activity

Rajamangala University of Technology Lanna organized a promotional activity for the RMUTL Business Incubation Center on January 10, 2024, at the Faculty of Engineering, RMUTL Tak Campus.

The initiative aimed to introduce participants to business incubation processes, entrepreneurship activities, business plan competitions, and commercialization of university research, innovation, and technology into branded products. It also provided foundational knowledge on intellectual property and the implementation of the “Under the Royal Patronage” program, including strategic policies, product development, and patent applications.

Key aspects of the activity included Demonstration of Business Incubation Strategies, Innovation Commercialization, and Community Engagement. The project seeks to support university faculty and researchers in fostering entrepreneurship and sustainable growth of university-based enterprises.



2.RMUTL Faculty Share Expertise in Livestock Management for Mae Mo Community

On January 16, 22, and 23, 2024, faculty from the Department of Animal Science and Fisheries, RMUTL Lampang, served as instructors for the Mae Mo Livestock Volunteer Project at Kitipong Farm, Mae Mo District, Lampang.

Organized by the Mae Mo Agricultural and Livestock Cooperative under the Mae Mo Power Plant Development Fund, the project aimed to support farmers in professional livestock management and develop community livestock volunteers. Faculty provided training in goats and sheep, swine, poultry, and cattle management, including feeding, formula calculation, and practical exercises.

A total of 44 participants joined the training from February 15–25, 2024, at the Royal Project Learning Center and Kitipong Farm, strengthening local expertise and volunteer support in livestock management





Decent Work & Economic Growth

3. Mae Chaem Craft Coffee “Music & Art Festival 2024”

From February 10–11, 2024, the “Yang Chaem” research team of Rajamangala University of Technology Lanna, in collaboration with local partners including the Mae Chaem District Children and Youth Council, Chaem Jing Coffee, schools, youth groups, local government, NGOs, TAT Chiang Mai, and CP Group, organized the Mae Chaem Craft Coffee “Music & Art Festival 2024” at Chaem Jing Activity Area, Mae Chaem District, Chiang Mai.

The festival provided a platform for young coffee entrepreneurs, promoted tourism and local income, and supported sustainable coffee cultivation to reduce haze and conserve the environment. Activities included a cooking competition using unique local ingredients, cultural performances by youth and tribal groups, and demonstrations of cultural mapping and Nano Bubble technology for environmentally conscious production.

The initiative aligns with SDG 8, promoting sustainable economic growth, employment, decent work, and sustainable tourism that supports local culture and products, while fostering awareness, pride, and friendship across all communities.





4.RMUTL Signs Collaboration with Moo Inter Co., Ltd., Lamphun to Develop Skilled Workforce



Rajamangala University of Technology Lanna (RMUTL) signed a collaboration agreement with Moo Inter Co., Ltd., Lamphun, on February 14, 2024, at the Kasalong Meeting Room, RMUTL. The partnership aims to jointly develop a highly skilled workforce in business management, aligning talent competencies with industry needs.



The agreement focuses on producing high-quality undergraduate students with internationally comparable curricula and practical, hands-on learning experiences. Under this collaboration, RMUTL students will have the opportunity to gain professional experience and participate in cooperative education programs within the company. The partnership is set for a five-year period, from February 14, 2024, to February 13, 2029.

This initiative seeks to strengthen the quality of human resources and enhance the readiness of graduates to meet the evolving demands of the business sector.

5.RMUTL Hosts “Dreams Come True” Workshop to Inspire Student Entrepreneurs

Rajamangala University of Technology Lanna (RMUTL) organized the “Dreams Come True” event on March 7, 2024, at the Chiang Mai campus cafeteria. The program, hosted by the Student Development Division, University Business Incubation Center (UBI), and the Royal Initiative Project team, aimed to inspire students, alumni, and staff to become entrepreneurs by commercializing research and innovations.

The event included a panel discussion on RMUTL product development, a lecture on boosting business from university innovations, and a practical session on creating promotional content for social media. This program seeks to foster entrepreneurial skills and motivate participants to launch their own ventures.





Decent Work & Economic Growth

6. RMUTL Collaborates with Skill Development Institute 19 Chiang Mai to Conduct Hands-on Training for Gig Workers 4.0, Enhancing Workforce Livelihoods Towards a Sustainable Economy

Rajamangala University of Technology Lanna, in collaboration with the Skill Development Institute 19 Chiang Mai, organized a practical training activity under the project for developing specific vocational skills for Gig Workers from March 18 to 22, 2024, at Nong Faek Municipality, Saraphi District, Chiang Mai.

The purpose of this activity was to impart knowledge and vocational skills to low-income individuals registered for state welfare, informal workers, general contractors, and self-employed entrepreneurs who wish to learn new skills that have evolved with the times. The focus was on creating opportunities for productive and higher-income occupations through workforce skill development that aligns with the local context and development direction, as well as supporting access to necessary funding and resources for employment, along with providing career guidance throughout the process.

Key aspects of the workshop included training in Smart Greenhouse Agriculture using IoT technology, solar-powered electrical systems, automated IoT control for farming operations, irrigation system design, and practical applications of IoT in agriculture. This initiative aims to equip participants with modern agricultural techniques and technologies, ultimately enhancing livelihoods and promoting sustainable economic growth.



7. RMUTL Chiang Rai Enhances Agricultural Product Quality

On December 17, 2024, Rajamangala University of Technology Lanna, Chiang Rai, organized a business incubation project under the “Chiang Rai Smart Model Farmers and Entrepreneurs Network.”

The initiative aimed to support local farmers and entrepreneurs in improving production standards and processing skills for agricultural products. Hands-on training focused on preparing for production standard certification and value-added processing techniques to address market oversupply, reduce waste, and increase product value.

The training took place at Nam Wa and Suraklan Thitinun Community Enterprises, with collaboration from the Chiang Rai Provincial Public Health Office and the Mae Lao District Community Development Office. Participants gained knowledge in production management, quality control, and sustainable processing practices.

This project contributes to strengthening local agricultural capabilities, promoting sustainable production, and fostering community economic growth through networked collaboration.





8.RMUTL Phitsanulok Conducts Community Research Project at Chuen Chiva Community Enterprise

On January 20, 2025, the Research and Academic Service Division of Rajamangala University of Technology Lanna, Phitsanulok, conducted a community research project at Chuen Chiva Community Enterprise, Moo 4, Wang Pong Subdistrict, Wang Pong District, Phetchabun Province.



The project focused on studying the local context through discussions and interviews with community leaders and residents to develop research and academic service initiatives that align with the community's needs and potential. The aim was to create research and service agendas that respond to real community requirements while generating opportunities to enhance the quality of life for local residents.

Additionally, the team provided guidance on product development, including banana chip products, to improve quality standards and increase market value, ensuring that the products meet consumer demand and contribute to sustainable community development.

9.RMUTL Collaborates with OHEC to Develop Students as Volunteers and Innovators

Rajamangala University of Technology Lanna, in collaboration with the network of nine Rajamangala universities and the Office of Higher Education Commission (OHEC), organized a project titled "Student Development and Volunteer Innovator Plan" from March 17–19, 2025, at Green Lake Resort, Chiang Mai. The purpose of this project was to prepare graduates for the workforce and entrepreneurship by developing their skills as student volunteers and innovators.

Participants gained understanding of student development activity plans according to the Group 2 university indicators, and guidelines for implementing student development and volunteer innovation programs across all nine Rajamangala universities. The project emphasized project-based learning to enhance entrepreneurial skills and foster innovation.

This initiative aims to equip students with practical knowledge, entrepreneurial mindset, and innovative capabilities, ensuring they are well-prepared to enter the workforce or establish their own businesses, while promoting collaboration among Rajamangala universities





Industry, Innovation and Infrastructure

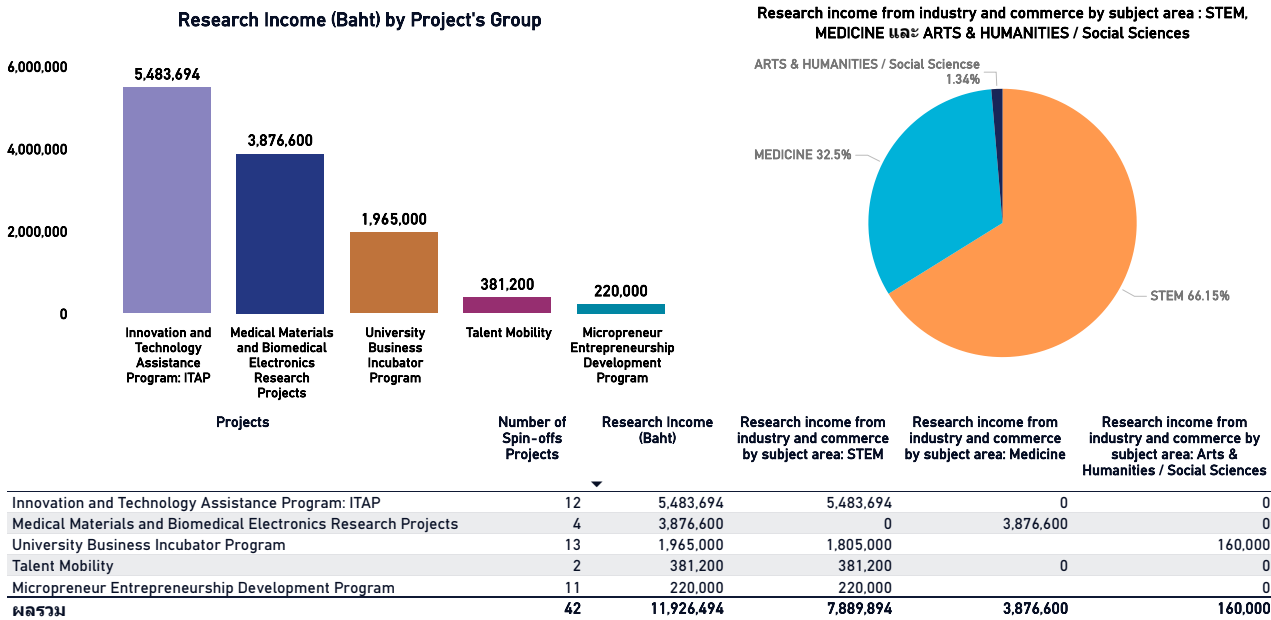
Rajamangala University of Technology Lanna's 42 University Spin-Off Projects Through Five Strategic Groups

In 2024, Rajamangala University of Technology Lanna supported a total of 42 university spin-off projects. These projects were distributed across various university's strategic groups as follows:

- 12 projects of Innovation and Technology Assistance Program (ITAP) with a budget of 5,483,694 baht,
 - 2 projects of Talent Mobility Program with a budget of 381,200 baht,
 - 13 projects of University Business Incubator (UBI) Program with a budget of 1,965,000 baht,
 - 11 projects of Micropreneur Entrepreneurship Development Program (GSB Micropreneur Academy) with a budget of 220,000 baht, and
 - 4 projects of Medical Materials and Biomedical Electronics Research with a budget of 3,876,600 baht
1. **Innovation and Technology Assistance Program (ITAP) :** Under an agreement between the National Science and Technology Development Agency and RMUTL, this program assists small and medium enterprises (SMEs) in integrating technology and developing innovations to strengthen their competitiveness in international markets. It encompasses 12 projects.
2. **Talent Mobility Program :** This program supports the transfer of research personnel to work on industrial projects aimed at solving problems and enhancing production capabilities. By funding research that addresses industry challenges and supports production, R&D processes and competitiveness, it involves 2 projects.
3. **University Business Incubator (UBI) Program:** Rajamangala University of Technology Lanna implemented the University Business Incubator (UBI) Program to foster entrepreneurial mindsets and support innovation-driven startups among students, faculty and alumni. The program provides intensive mentoring, business model development workshops and access to university facilities for product prototyping and testing. It also connects participants with potential investors and industrial partners to enhance commercialization opportunities. Through this program, university research and creative ideas are transformed into viable business ventures, promoting entrepreneurship and sustainable innovation. In 2024, this program consists of 13 projects.
4. **Micropreneur Entrepreneurship Development Program (GSB Micropreneur Academy):** This program is supported by the Government Savings Bank. The program aims to identify and cultivate university students with entrepreneurial potential through a structured process of intensive training, individualized mentoring and systematic business plan development. Moreover, the program also empowers students to transform their innovative ideas into viable ventures and prepares them to become future entrepreneurs during their university education. It incorporates 11 projects within its scope
5. **Medical Materials and Biomedical Electronics Research Projects:** The total budget received for these 42 University Spin-Off Projects was 11,926,494 baht, with allocation details for each university's strategic group presented in the following figure and table.



Project Budgets from Government and Industry for 2024



Project Budgets from Government and Industry for 2024

No.	Project	Number of Projects	Total Budget (Baht)
1	Innovation and Technology Assistance Program: ITAP	12	5,483,694
2	Talent Mobility	2	381,200
3	University Business Incubator Program	13	1,965,000
4	Micropreneur Entrepreneurship Development Program	11	220,000
5	Medical Materials and Biomedical Electronics Research Projects	4	3,876,600
	Total	42	11,926,494



Industry, Innovation and Infrastructure

Example of Highly Successful University Spin-Offs in 2024

Remarkably Successful Projects

1 Enhancing Efficiency in Ceramic Firing Processes through the Use of Heat Exchangers to Reduce LPG Fuel Consumption

This project is designed to enhance the efficiency of ceramic production processes through the integration of heat exchanger technology, with an additional objective of promoting environmental sustainability within industrial operations. The implementation of the developed system results in the successful installation of a heat exchanger in the ceramic firing process, which significantly reduced LPG fuel consumption, improved production efficiency, lowered energy costs and increased firing capacity, while simultaneously reducing environmental impacts. This innovative heat exchanger is developed, installed and successfully operated at Earth and Fire Ceramics Production Industry, located in Koh Kha District, Lampang Province, Thailand.



2 Pop Studio: A Creative Sculpture Project Inspired by Muay Thai Art

The Pop Studio project represents a creative sculptural endeavor rooted in the aesthetics of Muay Thai art. This work has emerged from the Art & Tech Venture program, which fosters collaboration between business incubation initiatives and intellectual property (IP) management efforts. The creator, Mr. Panupong Kumfun, a bachelor's degree alumnus in the Faculty of Fine and Applied Arts and Architecture from Rajamangala University of Technology Lanna, continues to pursue sustainable business development. He received consultation on intellectual property registration at the Creative Innovation and Technology Management Institute (CiNT) from Rajamangala University of Technology Lanna. The consultation was provided by Ms. Areewan Arunsit, an Intellectual Property and Technology Management Executive, who offered guidance on protecting creative rights and selecting appropriate registration pathways for the business.



3 The Art, Craft, and Culture Business Challenge Program

The program is designed to provide comprehensive guidance in product development, marketing strategy formulation and business plan adaptation, with the aim of aligning entrepreneurial initiatives with the demands of real target markets. This program is implemented under the University Business Incubator Program of Rajamangala University of Technology Lanna (RMUTL), in cooperation with the Business Plan Competition Evaluation Committee. Moreover, the program functions as an experiential learning environment

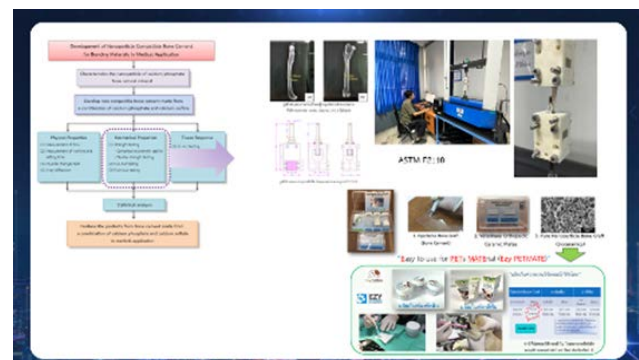
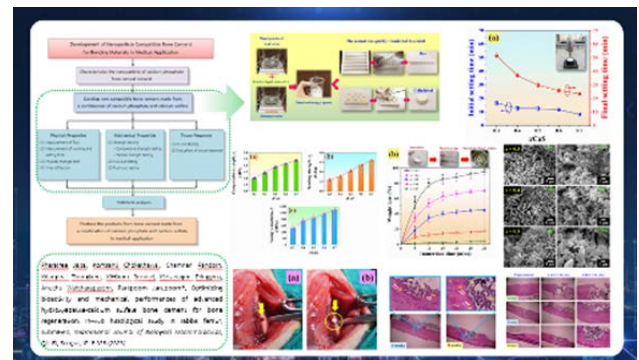
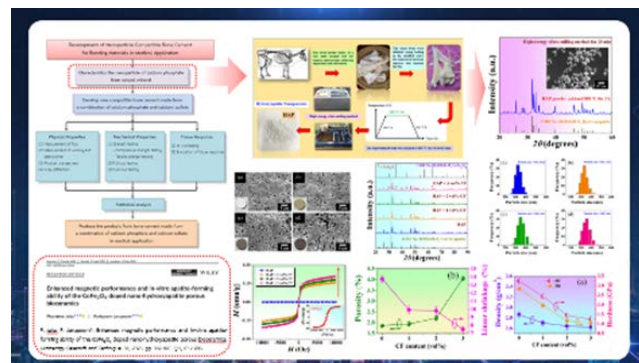
through which RMUTL students and alumni can critically reassess their creative concepts, refine strategic approaches and enhance their readiness to become a new generation of entrepreneurs. These entrepreneurs are envisioned to integrate art, craftsmanship and cultural identity into the sustainable creation of business value

4 The Medical Materials and Biomedical Electronics Research Projects

Projects focus on developing innovative and sustainable technologies for medical applications. The research includes four major projects.

4.1 Nano-Particle Bone Cement for Medical Surgery

This project aims to develop nano-sized bone cement for orthopedic surgery applications, such as hip and knee replacements. Current bone cement technologies, mainly based on calcium phosphate compounds like hydroxyapatite (HA), are entirely imported and expensive. Despite their excellent bone compatibility, long-term use may cause biological side effects. To address this, researchers propose synthesizing bone cement and artificial bone using animal-derived materials such as bovine, porcine, and fish bones. These are processed through thermal and physical modifications to produce biocompatible and mechanically strong materials suitable for bone repair and regeneration. The developed bio-cement can be injectable and self-setting, reducing recovery time and post-surgical complications. The project collaborates with Chiang Mai University's Faculty of Medicine and industrial partners to produce prototypes, test biocompatibility in animal trials.

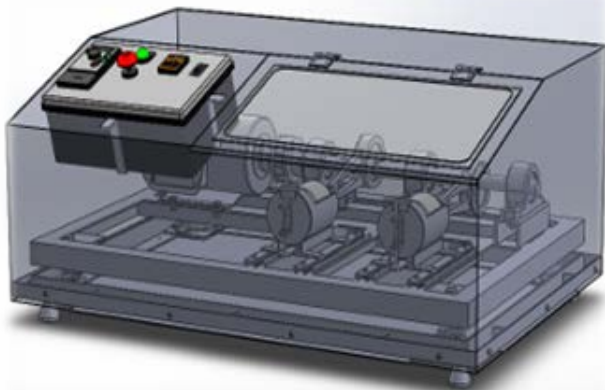




Industry, Innovation and Infrastructure

4.2 DentaCal: Injectable Calcium Hydroxide from Eggshells for Temporary Dental Filling

“DentaCal” introduces an eco-friendly, cost-effective dental innovation that transforms agricultural waste—eggshells—into calcium hydroxide for temporary dental fillings. The material helps control infection and stimulate tissue regeneration inside the tooth cavity. Using a custom-designed vibro-milling machine, calcium hydroxide particles are refined to the nanoscale, increasing surface area, antibacterial efficiency, and ease of injection. Its optimal viscosity, anti-bacterial activity, and non-irritant properties make DentaCal a promising material for temporary fillings and root canal treatments. This project demonstrates sustainable innovation integrating material science and dental technology to improve accessibility and reduce environmental impact.



4.3 Patient Lifting and Walking Assist Device

This project addresses the growing need for rehabilitation support among stroke and elderly patients who face limited mobility. Stroke is the world’s second leading cause of death, affecting over 80 million people globally. Physical therapy significantly improves recovery, but existing rehabilitation devices are costly, non-portable, or require multiple caregivers. In collaboration with Multi Engineering & Supply Co., Ltd., the research team designed an affordable lifting and walking assist device. It can lift patients from sitting or lying positions and support standing or walking exercises. The portable and low-cost design enhances safety, reduces caregiver workload, and improves rehabilitation efficiency for patients both in hospitals and at home.

4.4 Multifunctional Electric Bed

With over 6,000 bedridden patients in Chiang Mai and 1.3 million elderly citizens nationwide, the demand for affordable adjustable beds is rising. Imported electric medical beds are expensive (THB 40,000–60,000), difficult to transport, and require government certification. The research team developed a modular, foldable electric bed that is easy to assemble, lightweight (under 50 kg), and compact for private shipping. Future models plan to use longan-shell composite wood for sustainability. Additional services include delivery and assembly within 30 km at low cost, making the bed an affordable, user-friendly alternative to imported models.



Intellectual Property Achievements

In 2024, Rajamangala University of Technology Lanna recorded a total of 54 intellectual property rights successfully obtained, which derived from the university’s research outcomes and spin-off projects. The details are presented in the following table, categorized by faculty and type of intellectual property.





Number of Intellectual Property Achievements for 2024

Faculty / Institute / Office	Type of Intellectual Property				Total
	Invention Patent	Design Patent	Petty Patent	Copyright	
Faculty of Business Administration and Liberal Arts	–	–	4	1	5
Faculty of Science and Agricultural Technology	–	–	8	–	8
Faculty of Engineering	2	11	12	1	26
Faculty of Fine Arts and Architecture	–	10	–	–	10
College of Integrated Science and Technology	–	–	3	–	3
Agricultural Technology Research Institute	–	–	1	–	1
Office of Academic Resources	–	–	–	1	1
Total	2	21	28	3	54
Percentage	3.70%	38.90%	51.85%	5.55%	100%

Reduced Inequality

Rajamangala University of Technology Lanna Holds Annual Meeting for Students with Disabilities 2024 — Promoting Equality in Education

On August 9, 2024, the Student Activities and Services Section under the Division of Student Development, Rajamangala University of Technology Lanna, organized the Annual Meeting for Students with Disabilities for the Academic Year 2024 at the Division of Student Development conference room. The meeting aimed to promote understanding of educational rights and services for students with disabilities, as well as to plan for improving the quality and inclusiveness of education.

The meeting was honored by the presence of Petty Officer First Class Amnaj Jaikamphu, Director of the Division of Student Development, along with staff from the Disabilities Support and Services (DSS) Center, who participated in discussions and provided guidance on educational support services. The focus was on equitable access and accommodation tailored to the specific needs of individual students with disabilities.

potential. The center's work aligns with the Sustainable Development Goal (SDG) 10: Reduced Inequalities, particularly in promoting rights, equality, and inclusion of students with disabilities in higher education.

Rajamangala University of Technology Lanna reaffirms its commitment to being a “space of opportunity” that embraces diversity and fosters equal potential development for all students.



Key Discussion Points:

- Access to educational grants from the Office of the Permanent Secretary, Ministry of Higher Education, Science, Research, and Innovation to support necessary expenses.
- Academic and psychological counseling services, including assistance with learning, teaching, and university life, provided by academic and psychological experts.
- Access to personalized services such as sign language interpreters, note-taking support, and the student “Buddy System” to promote inclusive learning experiences.
- Continuous academic monitoring to evaluate and adjust support plans tailored to each individual's needs.

The DSS Center under the Division of Student Development plays a crucial role in reducing educational inequality by developing a comprehensive and flexible support system. Its mission ensures that students with disabilities have access to quality education and can reach their full





Rajamangala University of Technology Lanna Launches Education Equality Initiative to Empower Vulnerable Groups

On June 28, 2024, the Division of Student Development at Rajamangala University of Technology Lanna organized an event titled “Driving Education Equality: Opening Opportunities for Vulnerable Groups” at the university’s Chiang Mai campus. The initiative aims to ensure equal access to education for vulnerable populations, particularly persons with disabilities, while also expanding learning opportunities for individuals both inside and outside the formal education system. The program promotes Re-Skilling, Up-Skilling, and New-Skilling approaches as pathways toward sustainable development.

The opening ceremony was presided over by Associate Professor Dr. Uthen Kamnan, Acting President of RMUTL, who delivered the opening speech. Assistant Professor Akkasatja Duangsuphasin, Vice President for Student Affairs and Alumni Relations, gave an inspiring address to the participants, while Petty Officer First Class Amnaj Jaikamphu, Director of the Division of Student Development, presented the objectives of the project titled “Promoting and Developing Life Skills for Students with Disabilities.”

The event featured a special lecture by Dr. Siriluk Prongsantia, Director of the Center for Special Education, Faculty of Education, Nakhon Ratchasima Rajabhat University, an expert in special education. Her session focused on advancing educational inclusion for persons with disabilities in higher education. Participants also attended a workshop on Basic Thai Sign Language, designed to foster communication and understanding with individuals who have hearing impairments.

In the afternoon session, Assistant Professor Sutthisak Sukhamsri, Assistant to the President, welcomed participants and emphasized that “Communication in the silent world will no longer be silent, because we will leave no one behind.” This message reflected the university’s strong commitment to building a community grounded in empathy, understanding, and equality.

This initiative promote equal rights and educational opportunities for vulnerable groups. The goal is to empower all individuals to realize their potential and participate meaningfully in society.

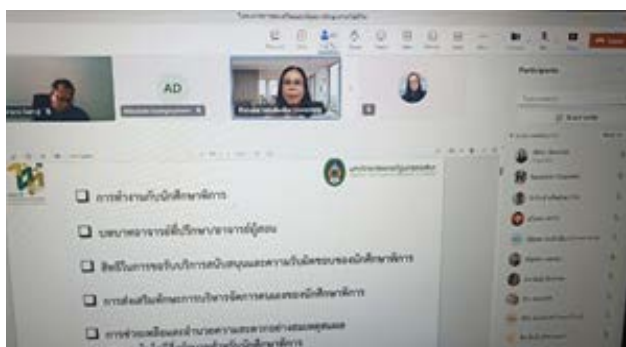
Rajamangala University of Technology Lanna reaffirms its commitment to being a “space of opportunity” — one that embraces diversity, fosters inclusion, and drives sustainable development across all dimensions of education.

Reduced Inequality

Special Lecture by Dr. Siriluk Prongsantia, Director of the Center for Special Education, Faculty of Education, Nakhon Ratchasima Rajabhat University

Dr. Siriluk Prongsantia, an expert in the field of special education and Director of the Center for Special Education at the Faculty of Education, Nakhon Ratchasima Rajabhat University, delivered a special lecture on supporting inclusive higher education for persons with disabilities.

Her presentation focused on strategies and best practices for facilitating access to quality education for students with disabilities, emphasizing the importance of inclusive learning environments, tailored support services, and academic accommodations that meet individual needs. She also highlighted the role of higher education institutions in fostering equality, empowerment, and lifelong learning opportunities for all learners, particularly those with special needs.





Training on Basic Thai Sign Language: Opening the World of Communication with Hearing-Impaired Persons

The workshop on Basic Thai Sign Language was conducted by staff members from the Disabilities Support and Services Center, under the Division of Student Development, together with students with hearing impairments.

The training aimed to promote understanding and effective communication between participants and individuals with hearing disabilities. Through hands-on learning, participants were introduced to fundamental Thai sign language vocabulary and expressions used in daily interactions. The session encouraged empathy, inclusiveness, and the breaking down of communication barriers, fostering a more understanding and supportive university community for persons with disabilities.





Sustainable cities & Communities

Cultural-heritage access and creative industry support

RMUTL Advances Cultural Preservation and Creative Innovation through IADA Network

The Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL), has demonstrated sustained leadership in cultural preservation and creative education through its ongoing participation in the International Arts, Design & Architecture Workshops and Exhibition (IADA). In 2024, RMUTL hosted the event under the concept “From Roots to Reunification: The Traditional Wisdom and Cultural Knowledge of Lanna, Leading to Contemporary and Innovative Wisdom,” welcoming Mr. Suraphon Kiatchaiyakorn, Advisor to the Minister of Culture, as chairman, with Asst. Prof. Dr. Jutturit Thongpron, Acting President, delivering the opening report at the Bodhi Phuttha Conference Room, RMUTL (Jed Yod Campus). The exhibition featured 250 artists, designers, and architects from 10 countries and 25 universities, providing free public access to diverse creative works through both physical displays from February 7-10, 2024. The program included special lectures by National Artists Emeritus Professor Preecha Thaonthong and Professor Decha Warashoon on “Thai Spirituality as Soft Power,” alongside public performances and cultural demonstrations that enriched local arts through shared creative exchanges between domestic and international participants.

A cornerstone of the 2024 event was the recording and preservation of intangible Lanna cultural heritage through ten specialized workshops led by master artisans, covering traditional crafts including metal punching, lacquerware, scripture weaving, palm leaf inscriptions, Lanna stucco, antique silverware, Lanna pottery, Lanna kham patterns, natural fabric tie-dyeing, and Lanna paper cutting art. These workshops documented traditional knowledge systems and techniques, ensuring their transmission to new generations while participants also visited significant cultural sites such as the Chiang Mai Art Museum, Baan





Jang Nak, Hern Sin Jai Yong, and Hern Hom Sin to deepen their understanding of local wisdom.

Building on this foundation, RMUTL continued its cultural mission in 2025 by collaborating and participating in IADA at Suan Sunandha Rajabhat University (SSRU) under the theme “Contemporary Rattanakosin: Art, Innovation, Creativity to the World.” **The university contributed exhibitions, design workshops, and academic discussions that explored the relationship between traditional craftsmanship, regional identity, and modern innovation, utilizing digital archives and contemporary design applications to ensure Lanna artistic traditions—including traditional patterns, materials, and storytelling—remain relevant in today’s creative landscape.**

The IADA network represents a collaborative partnership among four educational institutions: the Faculty of Fine Arts and Architecture (RMUTL), Faculty of Architecture and Creative Arts (RMUTI), Faculty of Fine and Applied Arts (RMUTT), and Faculty of Fine and Applied Arts (SSRU). This rotating annual event strengthens institutional capacity in teaching, research, design, academic services, and cultural preservation while supporting personnel exchange for advanced studies. Through these sustained initiatives, RMUTL provides ongoing public access to exhibitions and artistic events, encouraging communities to engage with art as part of everyday life while contributing to the enrichment of local arts through continuous cultural showcases and creative exchanges. By connecting education, culture, and innovation, RMUTL reinforces its commitment to sustainable urban development and the preservation of regional artistic heritage for future generations.



Sustainable cities & Communities

Fostering Inclusive Art Engagement and Cultural Preservation through Public Exhibitions in 2025

In 2025, the Faculty of Arts and Architecture at RMUTL continued its commitment to making art accessible to all by expanding opportunities for the public to experience creative expression and cultural heritage on campus. Through a series of open exhibitions and collaborative art events, the faculty reinforced its role as a cultural bridge between the university and the wider community. These initiatives reflect an enduring effort to promote inclusivity in the arts, nurture creative learning, and encourage appreciation of both traditional and contemporary artistic practices.

A highlight of the year was the continuation of public exhibitions at the Art and Culture Exhibition Hall, featuring student works from diverse disciplines such as Thai Art, Fashion and Textile Design, Industrial Design, Sculpture, and Printmaking. The Thai Art program once again drew significant attention for its exploration of regional identity, craftsmanship, and the reinterpretation of local wisdom through contemporary visual language. These exhibitions not only celebrated

artistic innovation but also contributed to preserving intangible cultural heritage—linking traditional aesthetics, storytelling, and design knowledge with modern creative processes. Through these accessible exhibitions, the faculty ensured that art remained an integral part of community life, fostering dialogue and participation among students, artists, and the public.

In addition, the faculty maintained its active participation in international art collaborations, particularly through the International Arts, Design & Architecture Workshops and Exhibition (IADA) 2025, hosted by Suan Sunandha Rajabhat University under the theme “Contemporary Rattanakosin: Art, Innovation, Creativity to the World.” RMUTL’s involvement strengthened cross-cultural engagement and highlighted the value of artistic exchange in global education. Together, these initiatives demonstrate the commitment to broadening public access to art, contributing to the vibrancy of the local arts community, and preserving cultural heritage through education, innovation, and international cooperation.





Sustainable Creative Innovation through the “Lanna Ceramic Identity Enhancement” Initiative

In support of the Sustainable Development Goals (SDGs), students from the Ceramic Technology Program, Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL), participated in the “Creative Innovation Promotion: Enhancing the Identity of Lanna Ceramics for Sustainability” activity, organized by the Department of Industrial Promotion at One Nimman, Chiang Mai. The event featured a hands-on ceramic workshop, where students demonstrated under-glaze painting techniques and pottery wheel forming. The activity provided an opportunity for the public, students, and artisans to learn about traditional Lanna ceramic craftsmanship, fostering appreciation for local cultural heritage while promoting creative learning and sustainable design practices.

This initiative reflects RMUTL’s commitment to sustainable education, cultural preservation, and creative industry development. By integrating traditional craftsmanship with modern innovation, the program supports the transmission of intangible heritage, strengthens community engagement, and contributes to local economic sustainability through cultural-based design. The collaboration between RMUTL and the Department of Industrial Promotion demonstrates the university’s active role in academia–government partnerships that advance SDG-aligned policies and strengthen regional creative economies. The project embodies the university’s vision to merge education, innovation, and culture in building sustainable creative industries for future generations.



Sustainable cities & Communities

RMUTL Expands Regional and Global Collaboration to Strengthen Sustainable Cultural Development and Education in 2024 (SDG 17)

In 2024, the Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL) advanced its commitment to the Sustainable Development Goals (SDGs) by fostering collaboration at both the community and international levels. The university worked with the Ban Nong Pla Man Tai Lue community in Phrao District, Chiang Mai, to establish the Learning Center for Indigo and Natural Dyeing, promoting local craft innovation, sustainable resource use, and community-based learning. This initiative exemplifies RMUTL's role in strengthening public access to cultural and creative spaces, enhancing local entrepreneurship, and preserving traditional craftsmanship through sustainable design education.

On the international stage, RMUTL partnered with Souphanouvong University in the Lao People's Democratic Republic (Lao PDR) to co-develop a master plan for the Tai Lue Textile Learning Center and Souvenir Market in Luang Prabang, integrating cultural heritage conservation with sustainable tourism development. The university also engaged in academic and research exchanges with Guangxi Normal University, People's Republic of China, supporting cross-sectoral dialogue and knowledge sharing for SDG-aligned education and innovation. These collaborations demonstrate RMUTL's expanding role in international partnerships, community empowerment, and sustainable design practices, reinforcing its vision of being a university that connects culture, creativity, and sustainability for both regional and global impact.





RMUTL Promotes Sustainable Cultural Heritage and Creative Collaboration through Lanna Arts and Ceremonial Traditions in 2024



In 2024, Rajamangala University of Technology Lanna (RMUTL) strengthened its commitment to the Sustainable Development Goals (SDGs) by organizing and participating in a series of artistic and cultural preservation initiatives that integrated education, creativity, and community engagement. Through more than 15 cultural events, RMUTL's Cultural Studies Center served as a platform for public access to cultural performances, spiritual ceremonies, and creative showcases that celebrate the richness of Lanna heritage. Highlights included the "Lanna Cultural Heritage Continuation Project", marking RMUTL's 20th anniversary, featuring traditional blessing rituals, the sacred Wiang Ched Lin water ceremony, and a light and sound performance portraying the historical and spiritual journey of the Lanna region.

A major achievement was RMUTL's participation in the Yi Peng Grand Krathong Procession 2024 on November 16, 2024, where the university earned First Runner-Up with a grand float under the theme "Chalerm Khwan Thosamaracha Sakkarthararamingrat Chakkraphat Rajamongkol." The procession honored His Majesty King Maha Vajiralongkorn's 72nd Birthday Anniversary and reflected the university's ability to combine traditional craftsmanship, spiritual symbolism, and sustainable artistic expression. Alongside traditional dance and music performances, and the Royal Commencement Ceremony stage design project, RMUTL demonstrated how academic creativity, cultural preservation, and cross-sector collaboration can contribute to sustainable cultural development and community pride. These initiatives exemplify the university's leadership in promoting inclusive access to culture, preserving intangible heritage, and advancing creative industries through sustainable design and partnerships.



Sustainable cities & Communities

Disaster-Resilient Support / Community Support

1.RMUTL Mobilizes Expertise and Innovation to Support Flood-Affected Communities

In response to the severe flooding that struck Chiang Mai in October 2024, Rajamangala University of Technology Lanna (RMUTL) reaffirmed its commitment to community resilience and sustainable recovery through the Chiang Mai Flood Response Package. Beginning with immediate relief efforts on October 5 and advancing into long-term rehabilitation by October 10, the university brought together faculty members, students, and partner networks to provide integrated support — from restoring homes and repairing electrical appliances to producing over 47,000 bottles of clean drinking water using the Hydro Pure mobile water production unit. These coordinated actions, led by the Institute of Technology Transfer to the Community, combined technical expertise, innovation, and public collaboration to ensure rapid, effective, and sustainable recovery for flood-affected households.

The initiative also emphasized service-learning and practical skill application, as students from programs such as Tourism and Hospitality and Food Business and Nutrition prepared and distributed meals, demonstrating how academic knowledge can serve community needs in times of crisis. Meanwhile, engineering and technology faculties applied their expertise in infrastructure repair and environmental safety. These collective efforts not only provided public access to essential services and safe community spaces but also supported sustainable rebuilding practices and knowledge transfer for long-term livelihood restoration. Through this collaborative mission, RMUTL continues to embody its role as a hub of innovation, professional education, and social responsibility, contributing to resilient communities and aligning with sustainable urban development goals.





2. Empowering Local Economies through Sustainable Design: RMUTL's Community Market Project in Phrao District

Rajamangala University of Technology Lanna (RMUTL) continues to strengthen its engagement with local communities through the research project “Community Market Design Guideline with a Sustainable Approach: A Case Study of Phrao District, Chiang Mai Province.” Conducted in collaboration with the Phrao District Municipality, this initiative focuses on designing a community market at the Mae Saluam water storage weir to promote income distribution and sustainable local development. Faculty members and students from the Faculty of Architecture and Interior Design integrated research with hands-on learning by studying the area’s social and environmental context, applying design thinking, and co-creating prototypes for market kiosks and a community logo that reflect local identity and sustainable design principles.

The project addresses the community’s need for a permanent space to sell agricultural products and handicrafts, enabling community enterprise groups, the elderly, and ethnic artisans to gain stable income through regular Saturday markets. By emphasizing local participation, environmentally conscious materials, and context-sensitive spatial planning, RMUTL contributes to sustainable urban and rural linkages that support economic resilience and cultural preservation. This collaboration exemplifies RMUTL’s commitment to community-centered education and the application of sustainable design innovation to improve livelihoods and foster inclusive growth.



ภาพที่ 4 ระยะขอบเขตแนวตำแหน่งการตั้งตลาดนัด



ภาพที่ 5 มุมมองลักษณะด้านทางเข้าของตลาดนัด



ภาพที่ 6 ระยะขอบเขตแนวตำแหน่งการตั้งตลาดนัด





Sustainable cities & Communities

3.Designing for Sustainability: RMUTL's Support for the Baan Muang Kung Pottery Community

Rajamangala University of Technology Lanna (RMUTL) continues to promote local economic development and cultural preservation through the research project “The Pilot Creation of Sustainable Stall Design to Promote Temporary Pottery Market in the Baan Muang Kung Community.” Conducted in collaboration with local artisans in Baan Muang Kung, Chiang Mai Province, the project responds to the community’s need for a suitable market space to showcase handmade clay pottery, a craft recognized for its unique forms and intricate patterns. Faculty members and students from RMUTL applied sustainable market design principles and participatory research methods, including community meetings, site analysis, and qualitative field studies, to develop eco-friendly, flexible stall designs that reflect the local identity and support both environmental and social sustainability.

The project demonstrates RMUTL’s commitment to empowering rural communities by creating sustainable retail environments that help artisans reach broader audiences, stimulate local tourism, and enhance economic resilience. By promoting community participation, sustainable material use, and context-sensitive spatial design, this initiative contributes to revitalizing local economies and preserving cultural heritage through innovation. The proposed design guidelines also serve as a model for future development of temporary markets that balance aesthetic, functional, and environmental values, reinforcing RMUTL’s mission to integrate academic expertise with real-world community benefit



Figure 2 The atmosphere of exhibitions store of the tourism learning center



Figure 3 The workshop base where products are crafted and sold

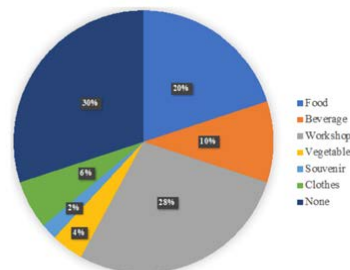


Figure 5 The percentage of a unique skill among the local villagers, enabling them to sell their products in the temporary market

4.1 Study of readiness potential in product sales.

Figure 5 shows, during an observational research in a participatory meeting with 75 villagers in the area, it was found that there is potential readiness for product sales in the temporary market, which is divided into 7 categories; The percentage of sales for general products is slightly higher than that for pottery products and workshop-based items. Additionally, Figure 1 demonstrates that most people in the village lack the knowledge and skills to make pottery; more than half of the community falls into this category.

Therefore, the committee conducted three meetings with community representatives to discuss directions and strategies. Subsequently, a community assembly was organized, led by the village head of Baan Muang Kung, Mr. Wachira Seechan, in one session. The desired guidelines were then summarized for the committee to proceed with the design and to determine the format of activities, including suitable days and times aligned with the community’s way of life.



Preserving Cultural Heritage through Design: The Art of the Auspicious Victory Drum in Ban Mae Klang Luang

Rajamangala University of Technology Lanna (RMUTL) continues to champion the preservation of cultural heritage and local wisdom through the research project “The Art of the Auspicious Victory Drum Applied to the Interior Architecture of the Prototype Community Cultural Center, Ban Mae Klang Luang, Chiang Mai Province.” This study explores the symbolic and spiritual significance of the Chai Mangkhala (Auspicious Victory Drum)—a traditional instrument representing blessings, power, and unity—and applies its artistic and ritual elements to the interior architectural design of a new community cultural center. Through a combination of in-depth interviews, community engagement, and visitor surveys, the research identified how the drum’s sacred motifs and rhythmic symbolism could inspire spatial design, layout, and furniture development that resonate with local identity and spiritual values.

The design emphasizes the use of local materials, modular furniture systems, and adaptive spatial functions, ensuring that the cultural center not only preserves but also revitalizes the living heritage of Ban Mae Klang Luang. By integrating traditional artistry with sustainable design principles, the project creates a space where culture, community, and creativity converge—serving as both a repository of knowledge and a platform for cultural exchange. This initiative highlights RMUTL’s ongoing effort to protect intangible cultural heritage, promote public access to cultural spaces, and sustain community-based wisdom through architecture and design innovation.

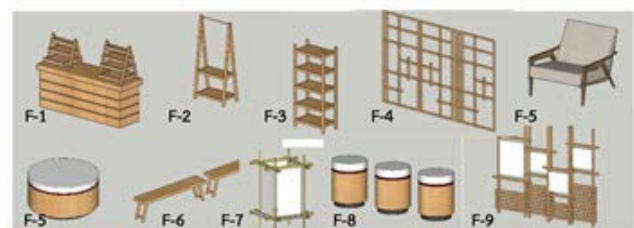


ภาพที่ 3 (ก) นาขั้นบันได แหล่งท่องเที่ยวในชุมชนบ้านแม่กลางหลวง จ.เชียงใหม่ (ข) พระธาตุแม่กลางหลวง (ค) พุทธอุทยานแม่กลางหลวง (ปางาเกอญาราม)

จากการสัมภาษณ์และสอบถามทางผู้ใหญ่บ้าน ชาวบ้าน และพระสงฆ์ในพุทธอุทยานแม่กลางหลวงได้ให้ความเห็นและสนับสนุนให้พื้นที่ที่ตั้งโครงการตั้งอยู่ที่ศาลารวมใจภายในพื้นที่ พุทธอุทยานแม่กลางหลวง (ปางาเกอญาราม) โดยศาลาหลังนี้จะเป็นการใช้ในการจัดกิจกรรมในวันสำคัญต่าง ๆ ทางพุทธศาสนา และเป็นจุดศูนย์รวมของคนในชุมชนสำหรับจัดประชุม จัดกิจกรรมต่าง ๆ



ภาพที่ 7 (ก) Architectural Perspective (ข) (ค) และ (ง) Interior Perspective



Sustainable cities & Communities

Volunteer Camp 68: Developing Community Exercise Spaces, School Grounds, and Football Fields for Sustainable Living

In alignment with the Sustainable Development Goals (SDGs), the Faculty of Arts and Architecture at RMUTL organized the “Nok Hook Volunteer Camp 68” (Architecture Volunteer 68) on February 17, 2025, as part of its commitment to fostering sustainable urban and rural development. The initiative focused on improving community exercise areas, school grounds, and football fields, creating safe and accessible spaces that support community well-being and encourage active lifestyles. Through this volunteer-based development project, RMUTL emphasized the importance of student engagement, social participation, and knowledge application, integrating designed education with real-world community needs to promote inclusive and sustainable growth.

The activity was carried out through collaboration among faculty members, students, and local community partners, reflecting RMUTL’s role as a university of innovation and public service. The project’s outcomes included the renovation and enhancement of underutilized community areas, the application of sustainable design principles, and the creation of environmentally conscious and flexible public spaces for long-term benefit. This initiative not only strengthened the relationship between the university and the surrounding community but also demonstrated RMUTL’s ongoing efforts to integrate education, design, and sustainability as pathways to resilient, inclusive, and green communities.





RMUTL Students Foster Sustainable Campus Environments through Furniture Restoration and Waste Reduction

As part of its ongoing effort to support the Sustainable Development Goals (SDGs), Rajamangala University of Technology Lanna organized a student-led community service activity focusing on the restoration and repainting of old university furniture to extend its usability and promote sustainable resource management. Second-year students from the Architecture and Interior Architecture Programs collaborated to repair and repaint university chairs, turning unused or deteriorated items into functional furniture once again. This initiative not only improved the campus environment but also demonstrated practical applications of sustainable design and material reuse, reducing waste and encouraging environmental responsibility among students.

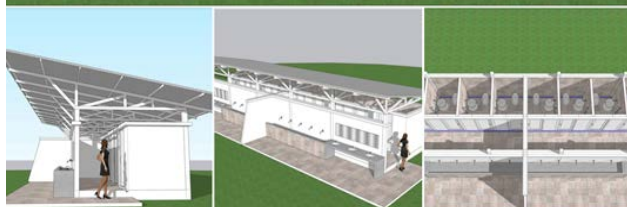
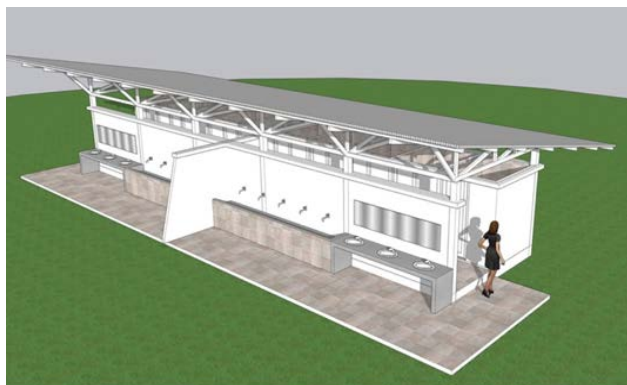
The project aligns with RMUTL's mission to promote green and sustainable university development while fostering social engagement, teamwork, and civic responsibility among its students. By integrating hands-on learning with sustainable practices, the activity enhanced both environmental stewardship and a sense of belonging within the university community. The initiative serves as a model for how higher education institutions can combine education, innovation, and sustainability to create inclusive, resilient, and resource-efficient environments that reflect long-term commitments to social and environmental well-being.



Sustainable cities & Communities

RMUTL Faculty Promotes Sustainable Community Engagement through Temple Development Project in Samoeng District

As part of its ongoing commitment to the Sustainable Development Goals (SDGs), faculty members from the Architecture Program, Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL) participated in a community service initiative to support the preparation of the Kathin Ceremony at Wat Mae Loi, Samoeng Nuea Subdistrict, Samoeng District, Chiang Mai Province. The project involved the design and construction of a multi-purpose restroom facility to serve both temple visitors and the local community, enhancing public access to sanitation and shared community infrastructure. The initiative not only supported a religious and cultural event but also demonstrated the application of architectural expertise toward improving community well-being and environmental hygiene in rural areas.



This collaboration highlights RMUTL's dedication to community-centered development, where academic knowledge and professional practice contribute to local sustainability and inclusive public services. Through active engagement with local residents and temple committees, the project strengthened social cohesion, encouraged responsible construction practices, and promoted accessible, safe, and sustainable facilities for public use. The initiative reflects the university's broader mission to integrate education, culture, and sustainability, reinforcing its role as a driving force for sustainable rural development and community empowerment in northern Thailand.





RMUTL Promotes Cultural Heritage Preservation through the Design and Construction of the Hor Trai at Wat Pong Sanuk, Nan Province

In 2024, the Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL) initiated the design and construction of the Hor Trai (Scripture Hall) at Wat Pong Sanuk, Wiang Sa District, Nan Province. Led by architect Pongsin Thaweephet, together with alumnus Worawut Bunma and fifth-year architecture students, the project represents a strong collaboration between academic learning and community-based cultural development. The Hor Trai design integrates Lanna architectural wisdom with contemporary sustainable design principles, emphasizing the use of local materials, context-sensitive design, and environmentally responsible construction methods. The project also aims to create a public learning and cultural space that preserves religious manuscripts while serving as a center for community education and cultural continuity.

This initiative reflects RMUTL's dedication to the Sustainable Development Goals (SDGs) through heritage preservation, community participation, and sustainable architecture. It strengthens the link between education, culture, and environment while promoting public access to cultural heritage sites, green construction practices, and youth engagement in cultural conservation. By empowering students and alumni to apply design expertise in real-world contexts, RMUTL continues to drive sustainable cultural development and ensure that local wisdom remains a living foundation for future generations.





Sustainable cities & Communities

Green University

1.RMUTL Promotes Sustainability through “Turn Trash into Treasure” Green University Initiative



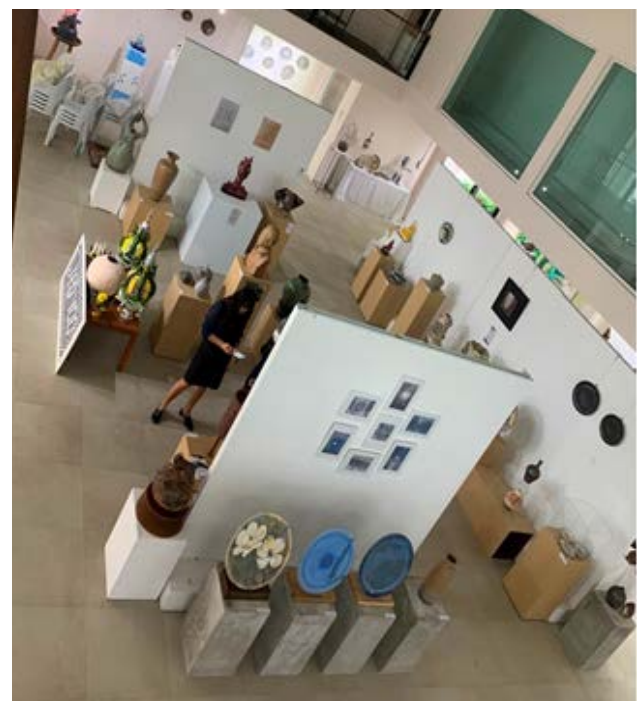
Rajamangala University of Technology Lanna (RMUTL) has launched the “Turn Trash into Treasure” activity as part of its ongoing Green University Project, reinforcing its commitment to environmental responsibility and sustainable campus development. In collaboration with AIS and PTT Global Chemical (PTT GC), the initiative — themed “Dispose, Return, Make Earth Remember” — encourages students, staff, and the wider community to actively participate in sustainable waste management and plastic recycling. Designated drop-off points under the Civil Engineering Building 4 and within the university cafeteria provide convenient access for participants to responsibly dispose of plastic waste from daily use.

This campaign not only reduces carbon dioxide emissions but also promotes a culture of environmental awareness and community engagement within the campus. Through shared action and educational outreach, RMUTL continues to build a greener, more sustainable university environment, transforming waste into resources and inspiring long-term behavioral change toward responsible consumption and recycling.

2.Transforming Spaces for Sustainability: RMUTL’s Green Building Initiative at Jed Yod Campus

Rajamangala University of Technology Lanna (RMUTL) continues to advance its sustainability goals through research and innovative design with the project “The Renovation of Jed Yod Cafeteria for the Exhibition Hall under the Green Building Concept,” led by a faculty member of the Faculty of Arts and Architecture. This research focuses on transforming the existing cafeteria into a public exhibition space for students, faculty, artists, and designers, emphasizing environmentally responsible design and sustainable construction practices. The study underscores the importance of reusing existing structures to minimize construction waste, enhancing natural lighting, utilizing local materials, and incorporating flexible design elements to accommodate diverse users while maximizing environmental benefits.

By integrating green building principles and sustainable design theories, this initiative supports RMUTL’s mission to reduce environmental impact and promote energy-efficient, community-centered facilities. The renovated exhibition hall will not only provide public access to cultural and creative works but also serve as a model for environmentally conscious architectural adaptation. Through the work of Jureepon Lueakha and the Faculty of Arts and Architecture, RMUTL reinforces its leadership in sustainable campus development and contributes to the global movement toward carbon reduction and resilient urban design.



3.RMUTL's "Schopfer Thesis 2024" Showcases Sustainable Innovation and Community-Based Design for a Greener Future

The Faculty of Fine Arts and Architecture, Rajamangala University of Technology Lanna (RMUTL) organized the exhibition "Schopfer Thesis 2024" to showcase 27 creative thesis projects by final-year students in Industrial Design, highlighting design innovation that supports sustainability, community well-being, and local identity. Held from March 25–27, 2024 at the RMUTL Art Gallery (Jed Yod Campus), the exhibition presented creative solutions that align with the Sustainable Development Goals (SDGs), particularly through environmentally responsible and community-driven design practices.

A key highlight of the exhibition was the "Electric Tricycle for Community Tourism", developed in collaboration with the Ton Pao Municipality and Bo Sang community in Chiang Mai. The project integrates clean energy technology, local craftsmanship, and sustainable tourism promotion, reflecting RMUTL's mission to connect design education with real-world environmental and social impact. Inspired by the cultural symbol of the Bo Sang umbrella, the vehicle combines tradition with innovation to reduce carbon emissions and support green mobility in local tourism. Through initiatives like Schopfer Thesis 2024, RMUTL continues to foster sustainable design education, empower students to contribute to inclusive and resilient communities, and promote environmental responsibility in creative industries.



Suphaksorn Sommit, Natthasakorn Theamsing, Duait Thongpremit

Design a tour electric train for the Bo Sang community

The main structure is made of 1.5-inch round steel, welded into a rounded shape and covered with fiberglass. It's painted with anti-rust primer and industrial-grade dark red spray paint, which matches the color of the most popular shade umbrellas among tourists. It's reinforced with 10mm compressed wood. The thick frame 4-inch wheels are covered with synthetic leather alternating between light and dark shades. The roof is covered with Sunbrella fabric that can be folded for storage. It has a digital display screen showing speed and battery power. The front wheels are 22 inches, and the rear wheels are 26 inches, equipped with shocks to support weight. It uses a 48V 30Ah 1000mah-tan battery, charges in 2 hours, and can run for 5-6 hours at speeds not exceeding 50km/h. The driver's seat is adjustable. Dimensions of the electric three-wheeled tourist vehicle are 145 x 248 x 110 cm.

The inspiration comes from the ancient three-wheeled bicycles, painted in dark red, the same tone as the original shade umbrellas crafted from traditional wisdom, using wood bark as dye. These umbrellas were highly popular among tourists.



Responsible Consumption & Production

Responsible Consumption and Production

Rajamangala University of Technology Lanna (RMUTL) places strong emphasis on responsible waste management practices in alignment with Sustainable Development Goal 12: Responsible Consumption and Production. The university produces a considerable amount of solid waste from daily academic and campus life activities, particularly single-use plastic drinking bottles and food waste generated from cafeterias and student service areas. If this waste is not properly separated at the source, it may significantly increase the volume of waste sent to landfills, resulting in higher greenhouse gas emissions that directly contribute to climate change and environmental degradation.

To proactively address these challenges, RMUTL has established a systematic waste segregation system across all faculties and student activity zones. The university also implements ongoing environmental awareness campaigns to encourage students and staff to adopt responsible waste-sorting behaviors as part of their everyday lifestyles. In addition, RMUTL continues to explore opportunities to transform waste into valuable resources through recycling and reuse initiatives based on the Circular Economy approach, ensuring that materials are utilized efficiently and contribute to a more sustainable campus environment.

Project Objectives

1. Improve waste sorting efficiency and reduce the quantity of waste disposed of in landfills, thereby mitigating environmental impacts.
2. Promote environmental awareness and encourage responsible behavior among students, staff, and the broader campus community through continuous education and engagement.
3. Increase the value of recyclable materials by 'applying reuse and recycling processes, supporting Circular Economy principles and resource efficiency.
4. Strengthen partnerships and collaborative actions with external organizations, government bodies, and private sectors to expand environmental
5. sustainability practices and create a greener community network.

Initiatives and Activities

1.Waste Sorting on Campus

The university has implemented various activities to educate students on proper waste separation and raise environmental awareness. For instance, on July 16, 2024, a Plastic Bottle Separation Project was carried out at Doi Saket College. The activity included a briefing on the project and the installation of designated collection bins for plastic drinking water bottles. The initiative aimed to encourage student participation in waste separation and promote a more environmentally responsible mindset within the campus community.





2. Garbage and Smiles Project: OPEN HOUSE 2024

During the OPEN HOUSE 2024 event at Rajamangala University of Technology Lanna for the academic year 2025, the university emphasized responsible waste management and environmental sustainability as an integral part of campus life. The “Garbage and Smiles Project” aimed to reduce greenhouse gas emissions from waste disposal, create added value from recyclable materials, and strengthen students’ understanding of their role as environmentally conscious global citizens. Participants were encouraged to join the “Trash for Smiles” activity, which promoted proper waste sorting through three simple and enjoyable steps: emptying any remaining water from plastic bottles, separating them correctly by type, and receiving candy as a small reward. This engaging and collaborative approach successfully raised awareness, improved waste separation practices on campus, and fostered a positive attitude toward sustainable behavior in everyday activities while also strengthening the university’s commitment to becoming a greener and more sustainable learning environment.



3. Plastic Bottle Separation Project: Reduce Global Warming

The “Plastic Bottle Separation Project: Reduce Global Warming” aims to support sustainable university development by increasing environmental awareness and promoting responsible waste management practices within the campus community. By focusing on proper separation and disposal of plastic bottle waste, the project contributes to reducing greenhouse gas emissions and mitigating global warming, in line with the principles of the Circular Economy and the Sustainable Development Goals (SDGs). The initiative actively engages lecturers, staff, and students at Rajamangala University of Technology Lanna, Chiang Mai, encouraging them to integrate environmentally friendly behaviors into their daily routines. Through active participation and continued waste sorting efforts, the project helps strengthen sustainability values on campus, creates a cleaner and healthier living environment, and reinforces the university’s long-term commitment to becoming a leading green and eco-conscious institution.

Responsible Consumption & Production

4. Green University Collaboration with AIS & GC

RMUTL strengthened its sustainability efforts by joining the national Green University Collaboration Project, titled “Throw, Turn, Let the World Remember Upvel 2,” in partnership with AIS and GC, creating a strong inter-university network to jointly tackle waste and climate-related challenges. Through engaging activities such as a Green Creator contest highlighting E-waste and plastic bottle reduction, campus-wide campaigns to collect recyclable materials, and a photography competition promoting proper waste separation practices in public spaces, the initiative encouraged active participation from students and staff while fostering creative climate action solutions. Conducted over a two-month period, the campaign successfully collected approximately 100,000 plastic bottles, equivalent to about 2,000 kilograms of recyclable material, resulting in an estimated 2,062 kg CO₂-eq reduction in greenhouse gas emissions. This collaborative approach not only enhances environmental literacy and promotes long-term behavioral change but also reinforces the role of universities as key drivers in advancing a low-carbon society in alignment with SDG 13: Climate Action.



5. Participating in a knowledge-sharing campaign with other organizations

The university extends its sustainability efforts beyond the campus by participating in community-focused educational campaigns, including activities to teach kindergarten students at Prince Royal's College about the importance of basic waste separation. By introducing simple waste sorting practices at an early age, the initiative aims to foster long-term environmental responsibility and build foundational knowledge before waste is disposed of, supporting broader goals of sustainable development. Through hands-on demonstrations, interactive learning, and positive reinforcement, the program encourages young learners to recognize the value of proper waste management while strengthening collaboration between educational institutions. This outreach activity contributes to raising community-wide awareness and enhances the role of the university as a leader in promoting sustainability in society.



6. Innovation from Plastic Waste

The university actively encourages upcycling and creative waste utilization through student-led initiatives. Environmental engineering students have designed innovative methods to recycle collected plastic bottles and transform them into useful products, reinforcing the concept of adding value to waste, and extending the lifecycle of plastic materials. This initiative provides hands-on learning opportunities that integrate environmental engineering knowledge with practical sustainability solutions. To date, students have successfully produced functional inventions such as decorative lamps made from plastic coils and durable trash bins assembled from plastic bottles. These projects not only reduce the amount of waste sent to landfills but also cultivate environmental responsibility, creativity, and engineering problem-solving skills among students. Through numerous activities carried out over the past year, Rajamangala University of Technology Lanna has further strengthened its commitment to becoming a leading institution in sustainable development, demonstrating how innovation can drive positive environmental change within the campus community.



On August 21, 2024, Rajamangala University of Technology Lanna, Chiang Rai, welcomed the local government agency from Chiang Muan district for a study visit. The visit focused on the innovation of converting **plastic waste into oil** through the **pyrolysis process** as a guideline for effective waste management and for reducing the increasing problem of plastic waste



Climate Action

Rajamangala University of Technology Lanna (RMUTL) participated in a seminar on forest carbon credits in Lampang Province to promote engagement in addressing climate change issues. The university aims to apply the knowledge gained to develop its environmental management strategies in line with the United Nations Sustainable Development Goals (SDGs).

On July 9, 2024, RMUTL, led by the Institute of Community Technology Transfer, in collaboration with the Agricultural Technology Research Institute and the Under the Royal Patronage Project Group, joined the seminar titled “Planting Trees to Earn Carbon Credits” at the Tara Ballroom, Tree Tara Hotel, Lampang Province.

The event was organized by the Thailand Greenhouse Gas Management Organization (Public Organization), through its Carbon Credit Certification Office, and was presided over by Mr. Chanathip Samyaem, Deputy Governor of Lampang Province.

This activity was part of an effort to encourage multi-sector participation in tackling climate change. Its objective was to enhance understanding of forest-based carbon credits and to promote participation in greenhouse gas reduction initiatives.

The seminar featured several insightful sessions, such as:

1. “What Are Carbon Credits? Can They Really Be Sold?” by Dr. Phrutthipa Rotkittikhun
2. “How to Earn Carbon Credits” by Dr. Pranee Muthongkaew
3. “Can Planting Trees Really Earn Carbon Credits?” by Mr. Apisit Senawong

RMUTL’s participation reflected its strong commitment to environmental collaboration and sustainable development, particularly in line with SDG 13 (Climate Action) and SDG 15 (Life on Land). The university plans to apply the knowledge and experiences gained from this seminar to further develop its environmental and greenhouse gas reduction strategies. These will be proposed to the **university council** to form concrete **policies and action plans** that foster collective engagement in environmental conservation and **carbon emission reduction**.





Climate change has emerged as an escalating global crisis, driving severe environmental degradation and socioeconomic vulnerabilities, such as intensified natural disasters, biodiversity decline, public health risks, and negative impacts on productivity and livelihoods. These challenges are largely the result of rising greenhouse gas emissions—especially carbon dioxide and methane—driven by fossil fuel consumption and unsustainable human activities. Recognizing the urgency of climate action, Rajamangala University of Technology Lanna (RMUTL) has integrated mitigation and adaptation strategies into campus operations to reduce its overall carbon footprint. Key actions include shifting toward digital systems to reduce paper usage, improving water and energy efficiency across facilities, and promoting

waste segregation at source to minimize methane emissions from landfills. The university also advances low-carbon mobility by encouraging the use of electric motorcycles and other eco-friendly transportation options to reduce reliance on fossil fuels. Alongside operational improvements, RMUTL prioritizes climate education and community capacity-building through knowledge transfer, collaboration with local and external stakeholders, and initiatives that strengthen climate resilience while fostering a culture of sustainability. Through these comprehensive efforts, the university actively contributes to national and global goals in accelerating the transition toward a greener, low-carbon society in alignment with SDG 13, including knowledge sharing on carbon dioxide reduction with partner institutions and communities.



Additionally, the university has shared knowledge on carbon dioxide reduction with other institutions through the following initiatives:

On Thursday, 1 August 2024, the Environmental Engineering Program under the Department of Civil and Environmental Engineering, Faculty of Engineering, Rajamangala University of Technology Lanna (RMUTL), organized a seminar titled “Application of Economic Instruments to Support Greenhouse Gas Reduction Toward Future Carbon Neutrality Targets.” The seminar was delivered by Dr. Wanida Suriyanon, a faculty member of the Environmental Engineering Program, and was attended by 80 participants including lecturers, current students, alumni, and representatives from Chiang Mai Municipality. The initiative aimed to enhance knowledge, build learner competencies, and foster awareness regarding natural resource conservation and environmental protection, which are key drivers for transitioning the nation toward a low-carbon



society and improving overall quality of life. The seminar provided essential knowledge and advocacy activities on climate change risks, as well as information related to Climate Change, Product Carbon Footprint, Organizational Carbon Footprint, Carbon Credits, and the use of economic tools to support greenhouse gas reduction, aligning with sustainable development goals.



Climate Action

On 17 August 2024, Rajamangala University of Technology Lanna (RMUTL) carried out the project “RMUTL Collaboration for Watershed Forest Conservation” in cooperation with seven public and private sector networks to protect and restore the upstream forest area of Ban Thung Yao, a vital natural barrier located in Doi Saket District, Chiang Mai Province. The activity covered more than 912 acres and included traditional forest-blessing rituals, forest ordination, and reforestation efforts within the community forest and watershed conservation zones. This project strongly aligns with several United Nations Sustainable Development Goals (SDGs), particularly SDG 13: Climate Action, as the restoration and preservation of forest ecosystems play a major role in carbon sequestration, reducing greenhouse gas concentrations in the atmosphere, and enhancing climate resilience for local communities



A Study Project on Water Management Strategies for Community and Social Security in Mengrai Subdistrict Municipality, Phaya Mengrai District, Chiang Rai Province

The project is under the program group “Under the Royal Benevolence” of Rajamangala University of Technology Lanna (RMUTL), implemented by the Sustainable Local Development Research Unit, RMUTL Chiang Rai.

The project consists of the following activities:

Activity 1:

Knowledge transfer on the development of a One Map system for the community, aimed at creating a model subdistrict development plan through area-based research and innovation. (Held on 17–18 July 2024)

Activity 2:

Study on the development of check dams to improve their design in accordance with the Royal Working Principles. (Held on 6, 7, 13, 14, and 20 July 2024)

Activity 3:

Meetings for area-based development planning. (Held on 10 July 2024 and 15 August 2024)

Activity 4:

Practical training and demonstration on the development of check dams to align with the Royal Initiatives (Royal Wisdom). (Held on 7 and 9 August 2024)

Activity 5:

Hands-on training for knowledge transfer on constructing check dams appropriate to the local geographical and social context, for relevant stakeholders in the area. (Held on 21 and 23 August 2024)





Life Below Water

The conservation and sustainable management of aquatic ecosystems are fundamental components of Sustainable Development Goal 14: Life Below Water, which focuses on conserving and sustainably using oceans, seas, and marine resources for sustainable development. Aquatic ecosystems—such as lakes, ponds, rivers, streams, wetlands, and coastal waters—play a vital role in maintaining ecological balance, supporting biodiversity, and sustaining livelihoods dependent on water resources. Universities, as centers of knowledge, innovation, and community engagement, hold a crucial responsibility in promoting education, awareness, and research to support these ecosystems.

In alignment with the indicator on “Supporting Aquatic Ecosystems through Education,” Rajamangala University of Technology Lanna (RMUTL) has actively demonstrated its commitment to educating, preserving, and rehabilitating aquatic ecosystems through a range of academic and outreach initiatives. These initiatives not only aim to enhance knowledge and awareness among students and local communities but also contribute directly to the sustainable management of freshwater and marine ecosystems, water conservation practices, and biodiversity restoration.

RMUTL is actively aligning its research agenda to the **objective of supporting aquatic ecosystems through education**, across its campuses in Lampang, Phitsanulok and Nan. For example, the Faculty of Science and Agricultural Technology’s Fisheries Program investigates aquaculture systems, freshwater ecosystem management, and the conservation of native fish species. The Animal Science and Fisheries department maintains expertise in breeding, water quality monitoring, and sustainable fish stock management.

In research activities, RMUTL emphasizes practices such as water management, conservation of freshwater ecosystems (ponds, streams, rivers), irrigation practices in aquaculture, and the prevention of over-exploitation of aquatic species. It is committed to generating knowledge which can be translated into educational programs and community outreach. The “Smart Fish & Farm” center in Chiang Rai, operated by RMUTL in conjunction with local community networks, illustrates a research-practice nexus: applying aquaculture innovation, local fish breeding, and integrated water resource management to a community setting. By investing in such applied research, the university lays the foundation for both education and stewardship of freshwater ecosystems, and ensures that academic outputs are not isolated from real-world aquatic ecosystem management.



Life Below Water

Stewardship refers to RMUTL's responsibility to protect, restore and maintain aquatic ecosystems associated with the university and its surrounding communities. RMUTL's Lampang campus conducted a hands-on learning base activity involving primary school students in aquaculture on July 26, 2567, and then on September 26, 2567, participated in a fish-release event in the important waterbody "Thung Bang Rakam" in Phitsanulok to rehabilitate aquatic resources. These activities show the university engaging directly in actions related to ecosystem maintenance.

On June 14, 2567, RMUTL in Nan collaborated with local government, military and national-park agencies to release one million native freshwater fish (Pla Man) into mountain-stream ecosystems, to conserve rare native species and restore aquatic habitat. Through this, the university demonstrates active stewardship of aquatic ecosystems—rivers, streams and wetlands—linked to its educational and research programs.

These efforts manifest the indicator's requirement that universities "demonstrate necessary actions related to the maintenance of aquatic ecosystems associated with the university" and "carefully managed practices with the aim to prevent potential harm to humans, animals, or the environment." By releasing native fish, promoting rehabilitation of aquatic habitats and engaging local stakeholders, RMUTL meets this benchmark of stewardship.

On July 26, 2567, the Fisheries Program at RMUTL Lampang organized a learning base in aquaculture for third-grade students from Assumption College Lampang. 291 participants, students and teachers, learned about fish breeding (Siamese fighting fish) and aquaculture practices in the university's laboratories and learning stations. This provides direct educational support on freshwater ecosystems, water-management practices, and aquaculture. By integrating students, faculty and cross-disciplined lecturers (e.g., from business & liberal arts), the program supports broader learning and integration.

RMUTL's curricula in the Animal Science and Fisheries department, across its campuses as noted on its website, further embed aquatic ecosystem knowledge into teaching. Moreover, the teaching is not only confined to the university but extends into community-education formats (schools, local groups), thereby widening impact beyond campus.

Outreach is the interface between university knowledge/teaching and community engagement—the channel through which the university raises awareness about key issues: overfishing, illegal/unreported/unregulated fishing (IUU), destructive fishing practices, and the sustainable use of aquatic ecosystems.

The fish-release project at Thung Bang Rakam in Phitsanulok, on September 26, 2567, had participation from RMUTL staff and students from the aquaculture program, and combined educational outreach with practical ecosystem restoration. Similarly, the June 14, 2567 conservation project in Nan is a community-driven outreach event releasing one million fish, engaging public and private sectors, and aligning with local tourism and conservation goals.

Such outreach covers the indicator's requirement :

1. Offering educational outreach activities for local or national communities to raise awareness about overfishing, IUU fishing and destructive fishing practices.
2. Offering outreach on the sustainable management of fisheries, aquaculture and tourism.
3. Demonstrating direct support through education to maintain aquatic ecosystems (streams, rivers, wetlands).

By collaborating with local administrative organizations, national-park agencies, community volunteers, and schools, RMUTL establishes partnerships—another key dimension in sustainable development education.



Educational Support for Freshwater Ecosystems

On July 26, 2024, the Fisheries Program under the Faculty of Science and Agricultural Technology, RMUTL Lampang, organized an educational activity titled “Aquaculture Learning Base” for third-grade students from Assumption College Lampang. The initiative served as an experiential learning platform that introduced young learners to freshwater aquaculture practices, water management, and aquatic biodiversity conservation. A total of 291 participants, including students, teachers, and university lecturers, took part in the activity, which combined lectures, workshops, and interactive demonstrations.

The event began with an informative session on Siamese fighting fish, highlighting its ecological importance and cultural value in Thailand. Following the lecture, students visited learning stations at the Integrated Science Building and Fisheries Laboratory, where they observed aquaculture systems, learned about sustainable fish breeding, and participated in hands-on experiences designed to foster curiosity and understanding about aquatic ecosystems.

This initiative directly supports the indicator requirement of providing educational programs on freshwater ecosystems and water management/conservation for local communities. By engaging students at an early age, RMUTL helps instill environmental awareness and responsibility, ensuring that future generations understand the importance of sustaining aquatic ecosystems and managing water resources responsibly.

Moreover, the integration of faculty members and students from the Faculty of Business Administration and Liberal Arts in this program underscores RMUTL’s interdisciplinary approach to sustainability education—combining scientific knowledge with community service and outreach, in line with the principles of SDG 14 and education for sustainable development (ESD).



Community Engagement in Aquatic Ecosystem Restoration

RMUTL's commitment to sustainable aquatic ecosystem management extends beyond classrooms into community-based environmental restoration projects. On September 26, 2024, RMUTL Phitsanulok Campus participated in a major environmental restoration initiative titled "Fisheries Resource Rehabilitation and Management Project" at Thung Bang Rakam, one of Phitsanulok's most important wetland areas.

The event, presided over by Dr. Thitiporn Laowprasert, Deputy Director-General of the Department of Fisheries, and attended by local government officials and university representatives, focused on releasing freshwater species to restore local aquatic biodiversity and maintain ecological balance. RMUTL's participation in this project—alongside the Department of Fisheries and local communities—illustrates the university's role in fostering partnerships for sustainable water resource management, consistent with Target 14.2 of the SDGs: "Sustainably manage and protect marine and coastal ecosystems to avoid significant adverse impacts."

Through the involvement of faculty members and aquaculture students, RMUTL provided technical expertise on breeding practices, fish health, and ecosystem monitoring. These efforts not only promote sustainable fisheries and aquaculture but also serve as a platform for educational outreach, raising public awareness about issues such as overfishing, illegal fishing practices, and the importance of ecosystem rehabilitation.

Such collaborations demonstrate how academic institutions can contribute to community-based aquatic ecosystem management, ensuring both scientific rigor and local participation in achieving long-term sustainability.





Sustainable Fisheries and Aquatic Biodiversity Conservation in Nan Province



Another significant example of RMUTL's engagement in aquatic ecosystem conservation is seen through its participation in the "Natural Resource and Environmental Conservation Project" in Dong Phaya Subdistrict, Bo Kluea District, Nan Province, held on June 14, 2024. This project, organized in collaboration with local government agencies, the Royal Thai Army's "Good Breed Soldiers" Project, and Khun Nan National Park, focused on releasing 1,000,000 Pla Man (freshwater fish) to restore declining fish populations and improve local water quality.

The project reflects RMUTL's alignment with the SDG 14 indicator by offering educational outreach programs on sustainable fisheries management and raising awareness about the preservation of freshwater species. RMUTL's Faculty of Science and Agricultural Technology, Nan Campus, led by Assistant Professor Amornchai Lorthongkham and his team, provided academic guidance on fish breeding, ecosystem monitoring, and aquatic biodiversity conservation.

This initiative also reinforced the royal philosophy of King Rama IX, who emphasized the need for harmony between development and environmental conservation. Through lectures, community discussions, and active participation from local residents, the project not only rehabilitated aquatic ecosystems but also strengthened community awareness and participation in protecting aquatic biodiversity, in accordance with the principles of sustainable development and responsible resource management.

By engaging with local communities, RMUTL fosters environmental stewardship, empowering residents to act as guardians of their natural water resources. The project further supports the university's mission to prevent potential harm to humans, animals, and the environment, by promoting safe, sustainable, and science-based ecosystem practices.

Conclusion

In summary, RMUTL's initiatives clearly reflect the indicator of Supporting aquatic ecosystems through education in the context of SDG 14: Life Below Water. Through applied research (Fisheries & Animal Science), stewardship (fish-release, habitat rehabilitation), teaching (school programmes, aquaculture labs) and outreach (community engagement, awareness campaigns) the university is providing direct support in maintaining freshwater ecosystems (rivers, streams, wetlands) and educating local or national communities about water management, aquaculture, sustainable fisheries and ecosystem conservation.

Moreover, the university's actions demonstrate the intentional "carefully managed practice and responsibility" to prevent potential harm to humans, animals, or the environment by ensuring that aquaculture activities, fish-stock releases and freshwater ecosystem interventions are done in collaboration with government agencies and local communities. RMUTL's approach sets a model for how higher education institutions can operationalise the indicator and contribute to SDG 14.

In summary, Rajamangala University of Technology Lanna (RMUTL) has effectively demonstrated its role in **supporting aquatic ecosystems through education**, research, and community engagement—perfectly aligning with the **SDG 14: Life Below Water** framework. Across its campuses, RMUTL's educational programs on **aquaculture, water conservation, and sustainable fisheries management** provide essential knowledge to students and local communities, fostering a culture of **environmental responsibility and ecological awareness**.

By collaborating with government agencies, local organizations, and the private sector, RMUTL has created a **model of partnership-based aquatic ecosystem management** that promotes biodiversity conservation, mitigates the effects of climate change, and strengthens community resilience. The university's commitment to **carefully managed practices** ensures that all actions are conducted responsibly, preventing harm to humans, animals, and the environment.

Ultimately, RMUTL's initiatives exemplify the spirit of SDG 14—**protecting life below water**—through practical education, community empowerment, and sustainable environmental stewardship, paving the way for future generations to inherit a healthier and more balanced aquatic ecosystem.

Keywords integrated: supporting aquatic ecosystems through education, freshwater ecosystems, water management/conservation, sustainable fisheries, aquaculture, outreach education, overfishing awareness, environmental responsibility, biodiversity conservation, sustainable ecosystem management, prevention of harm to humans, animals, and the environment, SDG 14 Life Below Water.



Life On Land

Rajamangala University of Technology Lanna (RMUTL) is a leading technical and applied sciences university serving northern Thailand's mountainous and watershed regions. The university is deeply connected to ecosystems that are vital for biodiversity, water resources, and community livelihoods.

In alignment with the United Nations' Sustainable Development Goal 15 (Life on Land), RMUTL works to protect, restore, and promote the sustainable use of terrestrial ecosystems. The university's SDG framework, detailed at sdgs.rmutl.ac.th sets out its commitment to conserve forests, restore degraded lands, and strengthen local stewardship of biodiversity.

From January 2024 to March 2025, RMUTL implemented a range of activities covering research innovation, natural resource stewardship, academic teaching, and community outreach. RMUTL has prioritized research and innovation supporting ecosystem conservation, forest-fire prevention, and sustainable land use, focusing on northern Thailand's sensitive upland areas.

Wildfire Detection & Hotspot Early Warning: "Lom-Hai-Jai Cheong-Doi"

In early 2024, researchers from Rajamangala University of Technology Lanna (RMUTL) introduced the "Lom-Hai-Jai Cheong-Doi" project — a smart sensor and hotspot early-warning system — to Members of Parliament and local leaders in northern Thailand. This innovative platform integrates IoT sensors, real-time environmental data, and community-based alert systems to detect wildfire hotspots and mitigate PM2.5 pollution caused by seasonal forest fires across Chiang Mai and neighboring provinces. Through this initiative, RMUTL demonstrates how technological research can play a vital role in supporting land ecosystems through education and innovation, while also directly contributing to the maintenance and

protection of forest ecosystems under threat. Furthermore, the project strengthens the development of policy and data frameworks that promote the conservation, restoration, and sustainable use of terrestrial ecosystems.

The project aligns with the goal of creating a technology ecosystem for land conservation, and in Dec 2024, RMUTL expanded this work by signing an academic MoU with Chiang Mai universities to integrate Smart IoT sensors, remote sensing, and digital platforms for haze-control and climate-resilience research.

This collaboration ensures science-driven decision support for managing land ecosystems, protecting wildlife habitats, and mitigating transboundary air pollution.



Applied Research for Ecosystem Restoration and Soil Management

Research groups from RMUTL's Faculty of Science and Agricultural Technology and the Community Technology Transfer Center conducted soil and water quality monitoring linked to World Soil Day (Dec 2024) and Thai Environment Day. These projects supported the Land Development Department, demonstrating RMUTL's commitment to:

- Uphold water-quality standards to protect ecosystems and wildlife.
- Provide evidence-based soil and land-use management research for communities.

Opening of the Phytomass Process Center under the Agroforestry and Phytopharmaceutical Center, RMUTL Nan

On July 18, 2024, Rajamangala University of Technology Lanna, Nan campus, officially inaugurated the Phytomass Process Center (PPC) under the Agroforestry and Phytopharmaceutical Center (PAD). The opening ceremony was attended by Asst. Prof. Dr. Chutisorn Ruangnarab, Deputy Dean of the Faculty of Business Administration and Liberal Arts, and Asst. Prof. Dr. Patchara Saipara, Deputy Dean of the Faculty of Science and Agricultural Technology, along with executives and staff from RMUTL Nan. Asst. Prof. Dr. Ratchaneeporn Inkham, Co-Director of the PAD Center, and her team warmly welcomed guests and partners at the event.

The establishment of the Phytomass Process Center (PPC) represents a strategic collaboration between RMUTL Nan and the Kasikorn Thai Foundation under the "Nan Sandbox" initiative, focusing on the development of non-timber forest products (NTFPs), specifically medicinal plants grown under forest canopies. This initiative aims to maximize the economic value of forest-based agriculture while conserving the surrounding ecosystems. By promoting the cultivation of medicinal plants beneath forest cover, RMUTL supports biodiversity conservation and ensures that local forest ecosystems remain intact while generating sustainable income for communities.

The PAD Center serves as a research and innovation hub for testing, processing, and standardizing the cultivation of forest-grown medicinal plants. More than 30 species are currently under research to determine optimal growth conditions that yield high and consistent concentrations of bioactive

compounds. These activities directly advance several SDG 15 (Life on Land) indicators by:

- Supporting land ecosystems through education and technology transfer, enabling farmers and local entrepreneurs to adopt sustainable under-forest cultivation practices.
- Working directly to maintain and extend existing ecosystems and their biodiversity, as forest areas are preserved and utilized sustainably for medicinal-plant cultivation instead of being cleared for monoculture farming.
- Collaborating with local communities to maintain shared land ecosystems, through partnerships that generate local employment, enhance economic resilience, and promote community-based stewardship of forest resources.
- Ensuring the conservation and sustainable use of terrestrial ecosystems, by integrating agroforestry, biodiversity protection, and local innovation within the same ecological landscape.

Furthermore, the PPC functions as a center for value-added processing, ensuring that locally grown medicinal plants meet international standards while maintaining cost efficiency and sustainability. The project not only enhances community livelihoods and local entrepreneurship but also reinforces RMUTL's role in research-driven ecosystem management and sustainable land-use development, aligning with Thailand's national goals for environmental conservation and the UN Sustainable Development Goal 15: Life on Land.



RMUTL exercises stewardship by maintaining its campus ecosystems and collaborating on regional forest-ecosystem restoration in northern Thailand.

Watershed Forest Restoration Partnerships

Through a multi-stakeholder collaboration in Doi Saket District, Rajamangala University of Technology Lanna (RMUTL) has continued its large-scale restoration of the Huai Ton Yang headwaters, encompassed approximately 912 acres, while also supported the rehabilitation of nearby community forests in Khun Mae Kuang covering an additional 316 acres. Now entering its third consecutive year, this long-term initiative enhances climate resilience, promotes biodiversity recovery, and helps reduce soil erosion in critical watershed areas. The project exemplifies RMUTL's commitment to maintaining and expanding local ecosystems, collaborating with communities to protect shared natural resources, and ensuring the conservation and sustainable use of forested and mountainous terrestrial ecosystems. In addition, it integrates research and student field training, providing valuable experiential learning opportunities for students in environmental science and land-management programs, thereby linking academic knowledge with real-world ecosystem restoration practices.



Life On Land

Campus and Community Tree Planting

In May 2024 (National Tree Day) and on October 21, 2024 (a royal occasion), RMUTL organized university-wide tree-planting events at its Doi Saket campus. Over 500 native seedlings—including yellow Chiang Rai, wild Himalayan cherry, and Lagerstroemia (speciosa)—were provided by the Royal Forest Department.

This initiative:

- Demonstrates stewardship of campus ecosystems and shared green spaces.
- Includes local biodiversity in campus planning and development.
- Reduces the impact of alien species by prioritizing native flora.
- The plantings contribute to carbon sequestration and improve wildlife habitats within the university's lands.

RMUTL integrates ecosystem education and land sustainability into teaching and applied learning.

Ecosystem and Land-Management Curricula

The Faculty of Agricultural Technology, Environmental Engineering programs, and the RMUTL Doi Saket campus integrate sustainability principles into their curriculum through modules on ecosystem services, forest management, and land-use planning. These academic programs support the university's commitment to offering educational courses on ecosystems, including wild flora and fauna, and to providing training and outreach on the sustainable management of land for agriculture and tourism. Students actively participate in reforestation projects, biodiversity monitoring, and soil-health assessments, allowing them to connect theoretical learning with hands-on conservation experience that contributes directly to protecting and restoring local terrestrial ecosystems.

Capacity Building with Protected-Area Rangers

From 20 – 22 March 2024, RMUTL's Community Technology Transfer Institute partnered with the Chiang Dao Wildlife Sanctuary and local agencies to host a three-day, hands-on training course on the maintenance of small engines and backpack blowers used for wildfire control and firebreak building.

- 51 rangers and community members were trained.
- 60 blower units were repaired and restored to service.

This initiative embodies practical education for land-ecosystem management, enhancing forest-fire prevention capacity and contributing directly to the resilience of protected-area ecosystems under threat.





Outreach extends RMUTL's sustainability impact beyond its campuses by supporting communities and regional agencies to conserve land ecosystems.

Collaborative Wildfire Prevention and Awareness

The Lom-Hai-Jai Cheong-Doi Project showcases RMUTL's commitment to protecting ecosystems beyond its own land. Through cooperation with local governments, MPs, and civil networks, RMUTL provides training on fire detection, sensor-data interpretation, and community response coordination.

These outreach activities directly align with indicators to:

- Support events aimed at promoting conservation and sustainable utilisation of wild land.
- Offer educational/outreach programmes for local communities on land management.
- Collaborate with local communities to maintain shared land ecosystems.

Awareness and Soil/Land Stewardship Campaigns

In December 2024, RMUTL celebrated World Soil Day and Thai Environment Day with hands-on activities on soil conservation, erosion control, and waste management, in partnership with the Land Development Department. Students and staff engaged in educational exhibitions, soil-testing demonstrations, and sustainable land-use workshops.

This initiative supports multiple SDG 15 indicators:

- Supporting land ecosystems through education.
- Maintaining water and soil quality to protect ecosystems and human welfare.
- Reducing waste and promoting sustainable use of resources.





Life On Land



Policies and Campus Practices

RMUTL integrates several sustainability policies and practices related to Life on Land:

- Plastic-waste reduction policy through reusable campaigns and green events.
- Waste-management procedures ensuring safe disposal of hazardous materials from labs and workshops.
- Food-procurement policies prioritizing locally and sustainably farmed produce in student cafeterias.
- Campus-biodiversity planning including native-species planting and alien-species control measures.

These policies align RMUTL with the indicators:

“Have a policy on reducing plastic waste on campus”,

“Have a policy, process, or practice on waste disposal covering hazardous materials”, and

“Have policies to ensure that food on campus is sustainably farmed.”





5) Conclusion

Between January 2024 and March 2025, RMUTL advanced SDG 15: Life on Land through comprehensive efforts combining research, stewardship, teaching, and outreach.

Key achievements include:

- Development and policy advocacy for wildfire-detection technology (Lom-Hai-Jai Cheong-Doi).
- Restoration of > 3,100 rai of forest ecosystems in Doi Saket and Khun Mae Kuang.
- 500 native trees planted on campus, expanding biodiversity.
- Ranger-capacity building for 51 participants and 60 restored firefighting tools.
- Smart-sensor MoU creating a research alliance for environmental data integration.
- Soil-stewardship awareness events connecting students with sustainable land-management practices.

These integrated initiatives demonstrate RMUTL's leadership in conserving terrestrial ecosystems, promoting sustainable land use, and embedding environmental responsibility within education, research, and community engagement — fulfilling the core expectations of THE Impact Rankings SDG 15: Life on Land.



Peace, Justice & Strong Institutions

1.RMUTL Drives SDG 16 Through Ethical Standards Video Initiative

Rajamangala University of Technology Lanna (RMUTL) continues to advance its commitment to the United Nations Sustainable Development Goals (SDGs) — particularly SDG 16: Peace, Justice, and Strong Institutions — through a powerful video production and sharing campaign focused on ethical awareness and good governance.

Promoting Peace, Justice, and Strong Institutions

SDG 16 emphasizes building effective, accountable, and transparent institutions at all levels. RMUTL embodies this goal by promoting ethics, integrity, and moral responsibility among its personnel and students. Through the Project for Driving and Developing Mechanisms for Ethical Standards for RMUTL Personnel, the university seeks to strengthen a culture of honesty and transparency in all aspects of its operations.

Creating Educational and Inspirational Video Content

As part of this initiative, RMUTL produced an educational video that highlights the importance of ethics and integrity in higher education institutions. The video serves as both an instructional and motivational tool, encouraging staff and faculty to uphold strong moral values in their professional conduct.

The video was distributed across all RMUTL campuses and offices, ensuring that every department, faculty, and administrative unit could access and engage with the content. This university-wide sharing fosters a collective understanding of ethical standards and strengthens unity in promoting good governance.

Building an Ethical University Community

By combining multimedia communication and moral education, RMUTL demonstrates innovation in implementing SDG 16. The use of video not only makes ethical principles more relatable and engaging but also ensures consistent messaging throughout the university network. This initiative reflects RMUTL's vision of being a university that not only excels in technology and innovation but also serves as a model institution for ethical leadership and integrity in the Thai higher education system.

Commitment to Sustainable Development

Through this ongoing effort, RMUTL reaffirms its role in advancing the UN's 2030 Agenda for Sustainable Development. By embedding ethical practices into the university's culture, RMUTL contributes to the creation of a peaceful, just, and inclusive society — aligning education with social responsibility and sustainable progress.





2.RMUTL's Institute of Technology Transfer to the Community Strengthens Transparency Through "No Gift Policy" Initiative

In alignment with the United Nations Sustainable Development Goal 16 (SDG 16): Peace, Justice, and Strong Institutions, the Institute of Technology Transfer to the Community (ITTC) at Rajamangala University of Technology Lanna (RMUTL) has officially announced its "No Gift Policy" to promote transparency, integrity, and ethical conduct in public service.

Commitment to Ethical Governance

On January 27, 2025, Assoc. Prof. Dr. Worajak Muangjai, Director of the Institute, together with the management team and staff, formally declared their commitment to the No Gift Policy. This initiative marks a significant step in reinforcing an ethical culture across the institution — ensuring that all personnel refrain from giving or receiving gifts or benefits in the course of their official duties, whether before, during, or after work-related interactions.

The policy aims to prevent conflicts of interest that may lead to corruption or misconduct, in strict accordance with the Rajamangala University of Technology Lanna Regulation on Good Governance and Ethics B.E. 2567 (2024).

Promoting Transparency and Accountability

This declaration aligns with the institute's continuous efforts under the Integrity and Transparency Assessment (ITA) framework, which evaluates and promotes ethical governance among public institutions in Thailand.

Through this policy, RMUTL's ITTC seeks to strengthen awareness of anti-corruption laws and

to cultivate a work culture based on honesty, responsibility, and integrity.

"The No Gift Policy helps build a transparent organizational culture and fosters trust and confidence among all stakeholders," said Assoc. Prof. Dr. Worajak Muangjai, emphasizing the institute's commitment to elevating ethical standards and good governance practices within the university.

Advancing SDG 16 Through Institutional Ethics

By implementing this policy, RMUTL contributes directly to achieving SDG 16, which promotes just, peaceful, and inclusive societies through strong and accountable institutions. The initiative underscores the university's dedication to operating with fairness, transparency, and moral integrity — core principles essential to sustainable development.

Continued Efforts Toward Sustainable Integrity

Further details about the No Gift Policy can be found in the official announcement titled "Policy on Refraining from Giving and Receiving Gifts or Benefits from Official Duties (No Gift Policy), Fiscal Year 2025", issued by the Institute of Technology Transfer to the Community, Rajamangala University of Technology Lanna.



Peace, Justice & Strong Institutions

3.RMUTL Enhances Institutional Integrity Through ITA Training Program

In alignment with the United Nations Sustainable Development Goal 16 (SDG 16): Peace, Justice, and Strong Institutions, Rajamangala University of Technology Lanna (RMUTL) continues to strengthen transparency and ethical governance through the Integrity and Transparency Assessment (ITA) Training Program held on February 2, 2024.

Promoting Transparency and Ethical Standards

The Office of the President and the Assistant to the President of RMUTL organized the ITA operational meeting for the fiscal year 2024 at Kasalong Conference Room, Office of the President Building, and via Zoom Meeting.

The event aimed to enhance the understanding and performance of RMUTL personnel in implementing the ITA framework — a national initiative that measures the integrity and transparency of public sector organizations.

Asst. Prof. Somkiat Wongpanich, Vice President for Administration, presided over the opening ceremony and emphasized the university's commitment to promoting ethical standards, transparency, and accountability across all departments.

Strengthening Governance Across Six Campuses

The meeting served as a platform to report the results of RMUTL's ITA assessment and to set strategies for improving institutional integrity in alignment with Thailand's National Anti-Corruption Strategy.

Participants included RMUTL staff from all six campuses as well as external stakeholders, ensuring collective understanding and collaboration in promoting transparency and ethical conduct in university operations.

Expert Guidance from NACC Region 5

The program was honored by guest speakers from the Office of the National Anti-Corruption Commission (NACC) Region 5, including Ms. Orathai Phiboonaluck, Director of the Regional Anti-Corruption Coordination Division, and Ms. Krisanaporn Kantha, staff member of the NACC Region 5 Office.

They delivered in-depth lectures and shared best practices on anti-corruption measures, ethical conduct, and institutional integrity, helping RMUTL personnel enhance their understanding of governance standards.

Advancing SDG 16 Through Integrity and Accountability

This initiative reflects RMUTL's ongoing efforts to promote good governance, ethical leadership, and institutional transparency, key pillars of SDG 16.

By continuously improving its ITA performance and integrating anti-corruption principles into all operations, RMUTL reaffirms its role as a model institution for ethical governance and sustainable development in Thailand's higher education sector.





3.RMUTL Enhances Institutional Integrity Through ITA Training Program





Partnerships For The Goals

Rajamangala University of Technology Lanna (RMUTL), as a proud member of the Sustainable University Network of Thailand (SUN Thailand), continues to strengthen its commitment to the United Nations Sustainable Development Goals (SDGs)—particularly SDG 17: Partnerships for the Goals.

This year, RMUTL reaffirmed its dedication to sustainable collaboration by participating in the signing ceremony of the Declaration of Intent for Sustainable Development at the United Nations Headquarters, Thailand, located on

Ratchadamnoen Nok Road, Bangkok. The event brought together universities and institutions nationwide to promote partnerships that drive collective progress toward sustainability.



In addition to this significant event, RMUTL has initiated and contributed to numerous projects and collaborations that support SDG 17 as follows,

RMUTL Strengthens Role in National and Regional SDG Policy Development

On October 29, 2024 — Rajamangala University of Technology Lanna (RMUTL) continues to demonstrate its direct involvement in national and regional Sustainable Development Goals (SDG) policy development through a comprehensive and collaborative approach that combines academic expertise, research-driven analysis, and partnerships with both government and nongovernment organizations (NGOs). The university plays an active role in identifying problems and challenges related to sustainable development by conducting in-depth assessments and research on education quality, innovation, and community well-being. Through initiatives such as the 2024 Capacity-Building Workshop on SDG Reporting and THE Impact Rankings Analysis, RMUTL has strengthened its institutional capability to develop data-informed policies and strategies that align with Thailand's sustainable development framework and the United Nations 2030 Agenda.

RMUTL further contributes to modelling likely futures with and without interventions by utilizing AI-based analytical tools and data visualization systems to forecast the impacts of sustainability initiatives. The university also engages in monitoring and reporting on interventions, producing evidence-based insights that guide national SDG strategies under the leadership of the Ministry of Higher Education, Science, Research and Innovation (MHESI). By providing policy input, technical expertise, and adaptive management mechanisms, RMUTL ensures that higher education plays a transformative role in Thailand's sustainable development. This integrated approach reinforces the university's position as a strategic partner in driving forward a resilient, inclusive, and sustainable future for the nation.



RMUTL Engages in Cross-Sectoral Dialogue with Government and NGOs to Advance the UN SDGs

June 13, 2024 — Rajamangala University of Technology Lanna (RMUTL) continues to demonstrate its leadership in sustainable development by initiating and participating in cross-sectoral dialogue about the Sustainable Development Goals (SDGs). On June 10, 2024, representatives from the RMUTL SDGs Steering Committee, led by Associate Professor Dr. Pracha Yuenyongkul from the Faculty of Engineering, joined the Global Sustainable Development Congress 2024 at the Queen Sirikit National Convention Center in Bangkok. The event was organized by the Office of the Higher Education Commission (OHEC) and involved collaboration between government bodies, nongovernment organizations (NGOs), academia, and the private sector.

Through interactive discussions, networking sessions, and practical workshops, RMUTL played an active role in building partnerships and sharing policy insights that contribute to Thailand's implementation of the United Nations SDGs. The congress provided a platform for dialogue across sectors—bringing together experts from higher education, government agencies, and NGOs—to explore urgent sustainability challenges and co-develop strategies for tangible outcomes. RMUTL's participation highlights its commitment to collaborative governance, evidence-based policymaking, and multi-stakeholder engagement in advancing national and regional sustainability agendas toward the 2030 goals.



Partnerships For The Goals

RMUTL Strengthens International Collaboration on Data Gathering for SDGs through GreenEdAsia Project

February 21, 2025 — Rajamangala University of Technology Lanna (RMUTL) is actively participating in international collaboration on gathering and measuring data for the Sustainable Development Goals (SDGs) through its involvement in the “Learning for Sustainable Future – Higher Education for Green Transition in Southeast Asia (GreenEdAsia)” project. Officially launched on February 17–21, 2025, and led by Ho Chi Minh City University of Technology and Education (HCMUTE), this initiative unites partner institutions from Vietnam, Finland, Spain, and Thailand—including RMUTL, Rajamangala University of Technology Thanyaburi (RMUTT), Dong Thap University, Häme University of Applied Sciences (HAMK), and the University of Burgos (UBU)—under the ERASMUS+ program funded by the European Union, with a total budget of €800,000.

As part of GreenEdAsia, RMUTL contributes to collecting, analyzing, and sharing sustainability-related data between Thailand and Vietnam to support the development of evidence-based strategies for higher education’s role in achieving the United Nations SDGs. The collaboration focuses on green education, sustainable innovation, and environmental data integration within academic programs, aligning educational reform with measurable sustainability indicators. By engaging in international data gathering and monitoring activities, RMUTL not only strengthens its institutional capacity for SDG reporting but also fosters regional cooperation in sustainable development research and policymaking. This partnership reinforces RMUTL’s commitment to advancing data-driven decision-making for sustainable higher education transformation across Southeast Asia.



Integrating Sustainability and the UN SDGs into Academic Programs at Rajamangala University of Technology Lanna (RMUTL)

Rajamangala University of Technology Lanna (RMUTL) places strong emphasis on integrating sustainability and the United Nations Sustainable Development Goals (SDGs) into its academic framework across all faculties. One of the key examples is the Bachelor of Engineering in Environmental Engineering program, which directly addresses sustainable development, environmental systems, wastewater management, and resource management. This program equips students with the technical knowledge and problem-solving skills needed to design and implement environmentally responsible solutions that contribute to national and global sustainability goals.

RMUTL also offers specialized courses that reinforce sustainability principles in various disciplines. The course “Environment and Development” focuses on the sustainable use of natural resources, environmental change, and the relationship between human development and ecological balance. Another course, “Sustainable Design,” emphasizes environmentally conscious design practices by exploring the social, energy, and regulatory dimensions of sustainability. These courses, available through lms.rmutil.ac.th, demonstrate the university’s commitment to providing students with both theoretical understanding and practical tools to address contemporary sustainability challenges.

Furthermore, RMUTL’s SDG portal highlights the institution’s strategic effort to integrate the UN SDGs into environmental and tourism education programs, showcasing degree programs and specialized courses directly linked to the SDGs. The university has also revised its general education curriculum to ensure that all undergraduate students are exposed to sustainability and SDG-relevant subjects. This initiative reflects RMUTL’s vision of producing graduates who are not only skilled professionals but also responsible global citizens capable of driving sustainable change across industries and communities.



RMUTL Expands Outreach Educational Activities for Alumni, Local Residents, and Displaced People

Rajamangala University of Technology Lanna (RMUTL) demonstrates its strong commitment to community engagement and outreach educational activities through various initiatives designed to benefit local residents, alumni, and displaced people. The university regularly organizes public learning programs and community development projects that extend beyond the classroom, ensuring that education contributes directly to social progress. For example, RMUTL's community empowerment activities focus on improving the quality of life of local populations through practical training, innovation workshops, and skill-building sessions. These initiatives enable participants to gain valuable knowledge that supports livelihood development, sustainability, and self-reliance—demonstrating RMUTL's role as a university that prioritizes inclusive education for all.



In addition, RMUTL works closely with local communities and alumni networks to strengthen social and economic resilience through its outreach projects. The RMUTL Lampang Campus Community Engagement Program is an excellent example, involving students, staff, and graduates in collaborative efforts to support community fairs, promote local craftsmanship, and apply academic knowledge to real-world challenges. Through these activities, RMUTL fosters long-term partnerships that strengthen alumni engagement while empowering local residents to participate in sustainable economic and environmental initiatives.



Furthermore, Rajamangala University of Technology Lanna (RMUTL), through its Business Incubation Center, in collaboration with partner agencies, organized a two-day workshop titled

“Business Readiness and Entrepreneurial Development” on 6–7 March 2025 at the 5th-floor conference room, Chalermphrakiat Building, RMUTL Chiang Mai.

The initiative forms part of RMUTL's ongoing community outreach and lifelong learning efforts, aimed at strengthening the capabilities of entrepreneurs, students, alumni, and university staff. By integrating academic knowledge, technology, and innovation, the program supports participants in becoming high-potential entrepreneurs equipped to thrive in the rapidly changing economy.

The opening ceremony was presided over by Asst. Prof. Dr. Anon Namin, Vice President for Academic Affairs, Research, and Academic Services, while Asst. Prof. Dr. Anan Thasna-udom, Director of the Business Incubation Center, reported the objectives of the event. A total of 25 participants joined the workshop, reflecting RMUTL's strong focus on inclusive learning and professional development for both current students and graduates.

The training covered practical knowledge and hands-on workshops on:

- Business planning and investment strategy
- Product and service development models
- Accessing financial resources and funding opportunities

• Adopting technology and innovation to enhance competitiveness in local and regional markets

Experts from diverse academic and professional sectors shared their insights, including representatives from the National Research Council of Thailand (NRCT), the National Innovation Agency (NIA), King Mongkut's University of Technology North Bangkok, Chulalongkorn University, and Thammasat University.

This initiative reflects RMUTL's mission to extend educational impact beyond the campus, offering knowledge and skill development opportunities to alumni, local business owners, and community enterprises. By fostering entrepreneurial capacity and innovation-driven growth, RMUTL strengthens the link between higher education, local economic resilience, and sustainable development.

Through these ongoing outreach activities, RMUTL demonstrates its commitment to lifelong learning, alumni engagement, and inclusive education, ensuring that graduates and community members continue to benefit from the university's expertise and resources long after graduation.



Rajamangala University of Technology Lanna





For RMUTL — the breath of Now,
The dawn that shapes tomorrow's vow.
A home where hearts and hands entwine,
Where hope and truth in unity shine.

Its light extends beyond all line,
No wall of race, no creed's confine;
No faith, no birth, nor soil's divide —
For all may stand here side by side.

Each life, each dream, each voice shall grow,
In boundless fields where knowledge flows;
For every breath, a meaning sown —
In RMUTL, we are one, whole, known.



*"Leading University of Technology and Innovation
for Sustainable Communities"*



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