

Chiang Mai University

A Leading University Committed to Social Responsibility
and Sustainable Development

SDGs

CHIANG MAI UNIVERSITY

2021 - 2022



มหาวิทยาลัยเชียงใหม่
มหาวิทยาลัยชั้นนำที่รับผิดชอบต่อสังคม
และการพัฒนาที่ยั่งยืน

SDGs

CHIANG MAI UNIVERSITY

2021 - 2022





SDGs

Chiang Mai University

Chiang Mai University (CMU) has set its main operational direction towards achieving the Sustainable Development Goals: SDGs. By defining them as the organization's strategic objectives, it reflects the fact that CMU has become a leading university which values the community, both nationally and globally. The SDGs selected are also in compliance with the six strategic objectives of the university.



Introduction

As the vision of Chiang Mai University is to be “A Leading University Committed to Social Responsibility and Sustainable Development through Innovation”, CMU has made the 17 Sustainable Development Goals (SDGs) an integral component of the proactive and mission-based strategies which are deemed necessary to achieve the university’s six Strategic Objectives (SO).

SO1: Biopolis Platform through CMU BCG, Sustainable Valley, and Smart Campus Flagships. This strategy complies with 3 SDGs—SDG 7: Affordable and Clean Energy, increase accessibility to sustainable energy; SDG 11: Sustainable Cities and Communities, create cities and safe settlements; and SDG 13: Climate Action, stop global warming.

SO2: Medicopolis Platform through Digital Health and Medical & Health Innovation District Flagships. This strategy complies with 2 SDGs—SDG 2: Zero Hunger, eliminate starvation and establish food security; and SDG 3: Good Health and Well-being, promote health and well-being for all.

SO3: Creative Lanna (Northern Thai) Platform through Design & Culture Entrepreneurship, Creative Lanna, and Creative Lana Branding Flagships. This strategy complies with 2 SDGs—SDG 1: No Poverty, eliminate poverty; and SDG 11: Sustainable Cities and Communities, create cities and safe settlements.

SO4: Education Platform through Multidisciplinary Program, Innovative Learning, Inclusive Education, and Data & Demand Driven Flagships. This strategy complies with 2 SDGs—including SDG 4: Quality Education, promote learning opportunities; and SDG 17: Partnerships for the Goals, build collaboration agreements at the international level towards sustainable development.

SO5: Research and Innovation Platform through Frontier & Deep Technology, Global Partnership, Open-Innovation, Research & Flagships. This strategy complies with SDG 9: Industry, Innovation, and Infrastructure, develop sustainable industries and innovation.

SO6: CMU Excellence Management Platform through Agile & Resilient, Innovative Workforce, Intelligent Organization Platforms. This strategy complies with 2 SDGs—SDG 1: No poverty, eliminate poverty; and SDG 11: Sustainable Cities and Communities, create cities and safe settlements as per EdPEX/TQA assessment.



In addition to proactive and mission-based strategies, CMU also conducts activities that support all SDGs, including SDG 5: Gender Equality, ensure equality for women and girls; SDG 6: Clean Water and Sanitation, Manage water sustainably for everyday use; SDG 8: Decent Work and Economic Growth, Promote economic growth; SDG 10: Reduced Inequality, Reduce inequality domestically and nationally; SDG 14: Life Below Water, Preserve and sustainably utilize marine resources; SDG 15: Life on Land, Foster the sustainable use of terrestrial ecosystems; SDG 16: Peace and Justice Strong Institutions, Promote peace and equal access to justice; and SDG 17: Partnerships for the Goals, Build collaboration agreements at the international level towards sustainable development. Images of the activities and operations have been included in this SDG Report. These images represent only a part of all activities and results related to the achievement of the sustainable development goals.



Message from the President

Chiang Mai University is Thailand's first regional university, established in accordance with the nation's policy and the educational requirements of the people of Northern Thailand. It is a center for academic pursuits and top-level professionals, providing benefit at both local and national levels.

Chiang Mai University's vision is to be a leading university committed to social responsibility and sustainable development through Innovation by introducing Sufficiency Economy Philosophy (SEP) and Sustainable Development Goals (SDGs) as part of its operational framework. It aims to deliver societal values both domestically and on a global scale through education, research, academic service (outreach), and integrated management (stewardship). As a leading national university, Chiang Mai University offers academic services that remain sharpened through CMU's Strategic Objectives, including 1. Biopolis Platform, 2. Medicopolis Platform, 3. Creative Lanna (Northern Thai) Platform, 4. Education Platform, 5. Research and Innovation Platform, and 6. CMU Excellence Management Platform. These strategies help the university produce graduates with integrity, quality, and global citizenship skills. They also enable the university to produce meaningful research and valuable innovations, all while delivering academic services that benefit society through the application of integrated management.

In addition, the university has established guidelines for the creation of research and academic services to build a network of cooperation with various agencies, including in the government, private, and social sector, and especially within academic circles. It also aims to raise the staff's awareness of and participation in fulfilling the university's SDG targets.

Chiang Mai University is committed to strengthening the community, the nation, and the globe by building a network of collaboration between all stakeholders regionally, nationally, and internationally in an effort to achieve the Sustainable Development Goal (SDG) targets via integrated action.

Professor Dr. Pongruk Sribanditmongkol, M.D.
President







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17 Sustainable Development Goals (SDGs)

- SDG 1 **No Poverty** : End poverty
- SDG 2 **Zero Hunger** : End starvation and establish food security
- SDG 3 **Good Health and Well-being** : Promote health and well-being for all
- SDG 4 **Quality Education** : Promote learning opportunities
- SDG 5 **Gender Equality** : Ensure equality for women and all genders
- SDG 6 **Clean Water and Sanitation** : Manage water sustainably for everyday use
- SDG 7 **Affordable and Clean Energy** : Increase accessibility to sustainable energy
- SDG 8 **Decent Work and Economic Growth** : Promote economic growth
- SDG 9 **Industry, Innovation, and Infrastructure** : Develop sustainable industries and innovation
- SDG 10 **Reduced Inequalities** : Reduce inequality domestically and nationally
- SDG 11 **Sustainable Cities and Communities** : Create cities and safe settlements
- SDG 12 **Responsible Consumption and Production** : Establish sustainable pattern of production and consumption
- SDG 13 **Climate Action** : Stop global warming
- SDG 14 **Life Below Water** : Preserve and sustainably utilize marine resources
- SDG 15 **Life on Land** : Foster the sustainable use of terrestrial ecosystems
- SDG 16 **Peace, Justice and Strong Institutions** : Promote peace and equal access to justice
- SDG 17 **Partnerships for the Goals** : Build collaboration agreements at the international level towards sustainable development

1 NO POVERTY



End Poverty



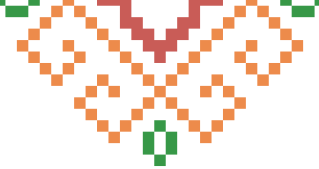
Lum Rice Cocoball “ลำไย”

ข้าวเหนียวนิยกลำไย ชามหวานแบบไทย จากข้าวเก่าสายพันธุ์พิเศษจากมอ. ที่ปลูกและดูแลอย่างพิถีพิถัน ด้วยเทคโนโลยีที่ทันสมัย นำมาสร้างสรรค์ในรูปแบบใหม่ด้วยเทคนิคสเฟียไรเซชัน (Spherification) ที่ใช้วิธีฉีดผสมสูตรพิเศษ ผสมผสาน ความนุ่มของข้าวเหนียวกับ รสหวานของลำไยออแกนิก และความกลมกล่อมหอมมันของน้ำกะทิอย่างลงตัวในคำเดียว



Assisting, Rehabilitating,
Transitioning to New Normal





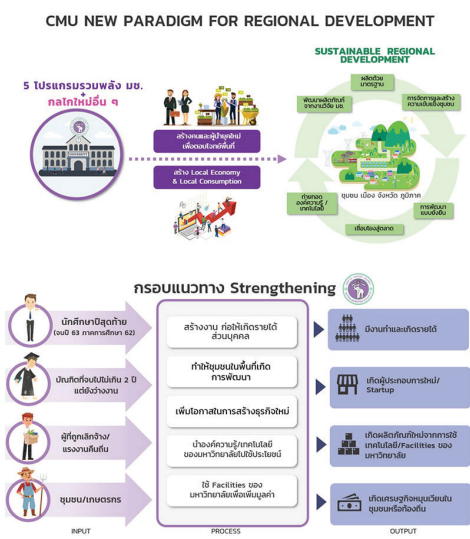
Source: <https://www.cmu.ac.th/th/article/73b476eb-4453-489e-9897-16a47df29b78>

CMU spent huge amount of money to assist students and relieve the situations of COVID-19.

Chiang Mai University has realized the impacts of COVID-19 and determined the guidelines to assist its students and relieve the burden through various implementations below.

1. Reduce the tuition fees in all programs, for both undergraduate and graduate levels.
2. Reduce the dormitory fees in the first semester of Academic Year 2021.
3. Allocate the scholarships at both faculty and university levels.
4. Set up the student relief funds for work and loans.
5. Extend the time periods/postpone the educational payment for those with student loans and other students in need.
6. Provide the educational supports through free SIM cards to enable the internet usage among students for fully effective online learning.
7. Provide the laptop lending services for students in need.

In addition, the equipment of EZ Studio and copyrights of Zoom Application are prepared to facilitate the online learning. These implementations are worth 465,000,000 Baht (Four Hundred Sixty Five Million Baht).



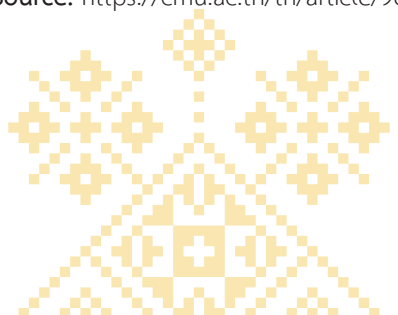
5 Programs: CMU Power Strengthening and Transitioning to New Normal after COVID-19

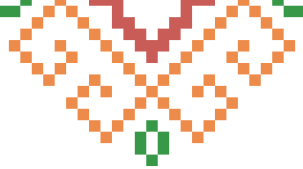
Northern Science Park in Chiang Mai Province and Chiang Mai University have applied the knowledge of technology and university infrastructure for utmost benefits to people, communities, and society on a large scale, affected by the situations of COVID-19 outbreak, through “5 Programs: CMU Power for Strenthening and Transitioning to New Normal” to model the mechanism in collaboration with other mechanisms to produce people and new-era leaders, work opportunities, incomes, and solutions to all areas as well as social and economic developments for sustainability in local development.

- Program 1: CMU Local Engagement Plug & Play
- Program 2: Learning & Working with CMU
- Program 3: CMU Startup
- Program 4: CMU Knowhow for All
- Program 5: CMU Pilot Plant for Value-Added



Source: <https://cmu.ac.th/th/article/9e04d210-ed28-46a1-89c5-21f36d0a5908>





Gastronomy Tourism: LANNA Gastronomy “Miss Chiang Mai”

Chiang Mai University has launched Gastronomy Tourism: Lanna Gastronomy “Miss Chiang Mai” as the project with aims to address the problems and promote the social and economic recovery after the COVID-19 pandemic, highlighting Chiang Mai as a city for Lanna gastronomy tourism to enhance its potential and self-reliance while presenting the local identities of its native lifestyles globally through the food that narrates the stories and makes people miss the city of Chiang Mai. It also promotes Chiang Mai as the Destination of Gastronomy Tourism that can draw tourists with their interest in culture in order to upgrade the quality tourism and generate higher incomes. This can put more positive impacts on the economy, tourism, and restaurant businesses in Chiang Mai for income distributions to all sectors with their collaborative economic development.

Source: <https://www.cmu.ac.th/th/article/d13f7d26-6705-4b8e-bf35-722738aac96b>

U2T CMU, The Integrated Socio-economic Upgrading of Sub-districts Project (U2T)

Chiang Mai University was approved for the Integrated Socio-economic Upgrading of Sub-districts Project (U2T) in the first round (the implementation periods between 1 February – 30 December 2021) covering 6 provinces e.g. Chiang Mai, Chiang Rai, Lamphun, Lampang, Mae Hong Son, and Phitsanulok. This project put an emphasis on an economic and social recovery in 50 Sub-districts or Tambons for a community’s economic recovery and development of new occupations within the communities. It was divided into 4 aspects e.g. Aspect 1: Honest livelihood development and job creation, Aspect 2: Generation and development of creative economy, Aspect 3: Knowledge application for community healthcare, and Aspect 4: Environmental promotion and circular economy for particular areas.

This project was under collaborations with lecturers and researchers from 18 faculties/divisions to apply their knowledge, experience, and expertise for the target areas, whether the product development, standardization, product processing, marketing development or platforms to be used in the future. Besides, Chiang Mai University has set the policies and guidelines to support and continue the local development in need of knowledge for continuous implementations. It actually focuses on the creation of learning process for local people to continue their implementations whereas the internal budget allocation is made to support such operations to achieve the goals and objectives of the project.

Source: <https://www.cmu.ac.th/th/article/1f41b707-fa25-47c0-a821-dcca5a7064e7>





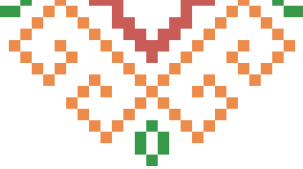
End Hunger and Establish Food Security



“

Upgrading Local Food,
Creating New Agricultural
Practices for Sustainable
Food Safety





“Kindness” from Local People to Chiang Mai Field Hospital 2

Chiang Mai University set up Chiang Mai Field Hospital 2 at Female Students Dormitory 5 to take care of CMU students and personnel with the positive Covid-19 test results while opening for the donations of necessary items at Female Students Dormitory 7 since 12 April 2022 onwards. Donations were required for necessary items e.g. face masks, alcohol gels, tissues, instant noodles, snacks, beverages, and drinking water, including bedding equipment and beds. Students’ parents, lecturers, CMU alumni, Chiang Mai and nearby residents continuously offered those items at the donation point.

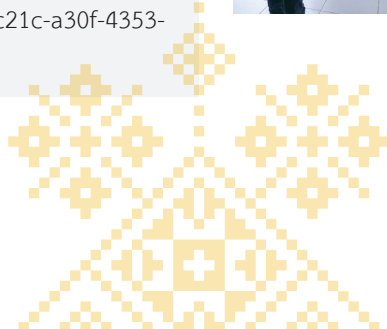
Source: <https://www.cmu.ac.th/th/article/aa6f4d32-b10d-4191-8fc6-c4a167a8d54c>

CMU Food Center for Suitable Lifestyles

Chiang Mai University has laid out the strategy of food safety along with the intention of its president (Clinical Professor Niwes Nantachit), leading to the construction of a new food center inside the university for quality food with hygiene at reasonable prices to students, personnel, and general people.

Moreover, this food center can be used as a co-working space for students to work together, read books, and talk with peers. It offers Wi-Fi services, clean water, comfortable transportation, and implementation under the standards of food safety and health security during the Covid-19 pandemic.

Source: <https://www.cmu.ac.th/th/article/6f21c21c-a30f-4353-b8ec-31fe2277e96d>





CMU Upgrades Local Food to Premium Levels

The Center of Tourism Research and Development, Social Research Institute, Chiang Mai University, in collaboration with Faculty of Agro-Industry, College of Arts, Media and Technology, and Faculty of Engineering, under the Nation-Building Youth Project: Potential Enhancement of Creative Community Tourism, Luang Nuea Sub-district, Doi Saket District, Chiang Mai Province, held the training programs to improve technological skills and food management for the community tourism to entrepreneurs in Tai Lue areas, Luang Nuea Village, Luang Nuea Sub-district, Doi Saket District, Chiang Mai.

This activity was to change local menus into premium food through “food decorations by chefs from Blackitch Artisan Kitchen” to share the tips for local food decorations to add more nutritional and economic values and to impress the community tourism. Regarding this activity, CMU realized the importance of local engagement in the tourism areas to enhance the food potential together with the community through a representation of local dishes to be widely known and recognized among tourists in respect of cultural charms and folk wisdoms. This eventually brought the commercial benefits to strengthen the community and enable the sustainable tourism management.

Source: <https://www.cmu.ac.th/th/article/4faf2e59-f9ff-486b-bebe-fb77bf3e615d>



Shop for Safe Agricultural Products inside CMU

The Faculty of Agriculture, Chiang Mai University, is one agency to serve as an agricultural learning center and a place for safe agricultural products within the university through an establishment of “Aggie CMU Shop” to sell a variety of safe agricultural produce, vegetables, and fruits from farmers to consumers directly. Several types of products e.g. pesticide-free vegetables, processed products, processed food, seeds, plants, trees, qualified garden soil, agricultural tools, and bio-organic fertilizers are available. These products are selectively chosen from various departments and centers within the Faculty of Agriculture, Chiang Mai University, and farmer groups, including networked entrepreneurs, whereby consumers are assured for the product quality.

Source: <https://www.cmu.ac.th/th/article/0648c68a-9ba4-4c68-b4f4-3dc0f8ae0c0c>

3 GOOD HEALTH
AND WELL-BEING

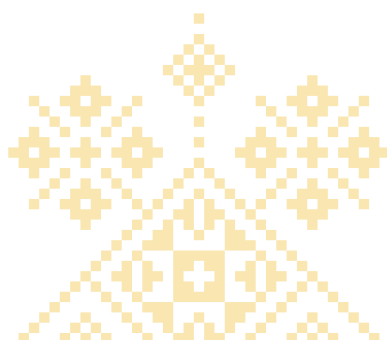


Promoting Well-Being for All



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Promoting Quality of Life
for All Dimensional Developments
to All Ages





Chiang Mai University, Smoke-Free Campus

Chiang Mai University has implemented the measures for all divisions within the university as smoke-free places and promoted the non-smoking campaigns to enable its personnel and students to be aware of smoking hazards, create the hygiene culture, and put up no-smoking labels at their workplaces. In addition, a counseling agency for smoking cessation to assist its students and personnel, including other smokers in general, to stop smoking is available. This counseling service is for any interested persons, whether themselves or their intimate people, while building the understanding toward the successful steps of smoking cessation, regarded as a part of community health promotion. Any interested persons can receive this service at 1) Smoking Cessation Clinic, Faculty of Medicine, Chiang Mai University, with the support of Thai Health Promotion Foundation, 2) “Pharmacy Smoking Cessation”, University Pharmacy, Faculty of Pharmacy, Chiang Mai University.

Source: https://sdgs.cmu.ac.th/th/ArticleDetail/8259911e-d3b5-4ad9-bd17-61d092b944db?fbclid=IwAR2bLqLbn9x_pqBL7g1nc9DNTuB0fdQKqdrz3MP-dyTlg0wEplAN79O5-PY



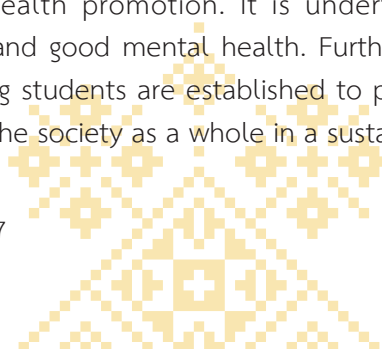
Intelligent and Sustainable Sexual Health Promotion Project, Chiang Mai University

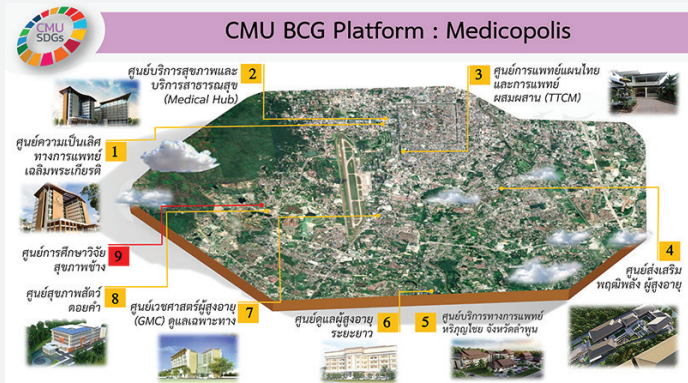
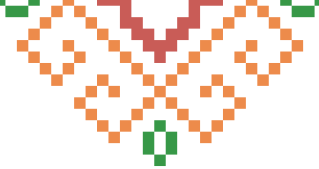
The Research Institute for Health Science in collaboration with the Science and Technology Research Institute and Faculty of Public Health, Chiang Mai University, has launched the Society of Intelligent and Sustainable Sexual Healthy Chiang Mai University to move forward “Healthy CMU” according to the proactive second strategy: Innovation for Food, Health, and Elderly Care based on the CMU Educational Development Plan, Phase 12.

This project aims at promoting good health in all dimensions to CMU personnel and students, particularly for sexual health promotion. It is undertaken through comprehensive sex education, safe sex, and good mental health. Furthermore, leader groups and sexual health networks among students are established to promote sexual hygiene for well-being of individuals and the society as a whole in a sustainable way.



Source: <https://www.rihes.cmu.ac.th/news/15017>





Medicopolis

Based on the proactive strategies of Chiang Mai University focusing on “Food, Health and Elderly Care”, the medicopolis is then created to improve the quality of life among people and the economy in Chiang Mai for a good society, reduce the inequality of technology and service accessibility, add the values to research works, and develop the local economy by medical innovations through various centers of the university below.

1. Medical Hub
2. Senior Wellness Center
3. Long Term Care Center
4. Center for Medical Excellence, Chalermprakit
5. Hariphunchai Medical Center, Lamphun Province
6. Thai Traditional Complementary Medicine (TTCM)
7. Geriatric Medical Center (GMC) for specialized medical services

Chiang Mai University still concentrates on qualified medical services, creates innovations for healthcare, and expands the opportunity for healthcare access on a wider scale for utmost benefits to people and all the Thai society with good health.

Source: <https://www.cmu.ac.th/th/article/d52ce936-e3bf-47d8-a121-e0f44dadd36d>

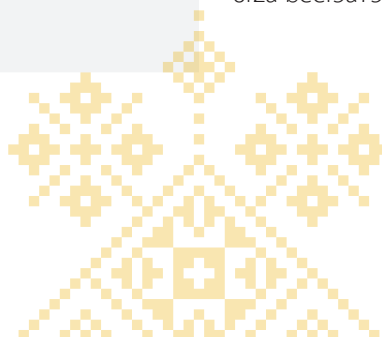


“DIY PM 2.5 Net”

The researcher team at Faculty of Engineering, Chiang Mai University designed and developed “DIY PM 2.5 Net” for bedridden patients to prepare for the severity of haze situation and air pollution in Chiang Mai and excessive PM 2.5 that put an adverse impact on people’s health in the local areas. The test undertaken at Tha Pha Public Health Service Center, Mae Chaem District, Chiang Mai Province found that “PM 2.5 Net” could significantly reduce large amount of dust particles, both at low cost and with effectiveness. Therefore, this initiative was expanded to bedridden patients and risk groups at home and in several communities in Mae Chaem District under the Awareness and Adaptation to Haze Project by GistNorth, Faculty of Social Sciences, Chiang Mai University.

The concepts of creative innovation and invention to communities by CMU lecturers and researchers can mitigate the risks from dust in the air, increase an access to healthcare, and improve patients’ quality of life. CMU will continue to seek solutions for the haze problem and the clean air for all areas in Chiang Mai.

Source: <https://www.cmu.ac.th/th/article/2814f0cb-ab7d-445c-8f2a-beef5a75417f>





Promoting Learning Opportunities

CMU 2021 OPEN HOUSE ONLINE

คลุกวงใน...เปิดบ้าน มช.

DAY
3

20 พฤศจิกายน 64

09.00 -
10.30 น.

คณะสถาปัตยกรรมศาสตร์

Faculty of Architecture Chiang Mai University
@arc.cmu

10.30 -
12.00 น.

คณะเทคนิคการแพทย์

คณะเทคนิคการแพทย์ มหาวิทยาลัยเชียงใหม่
Associated Medical Sciences
@ams.cmu

13.00 -
14.30 น.

คณะการสื่อสารมวลชน

คณะการสื่อสารมวลชน มหาวิทยาลัยเชียงใหม่
@FacultyOfMasscomm

21 พฤศจิกายน 64

DAY
4

09.00 -
10.30 น.

คณะทันตแพทยศาสตร์

งานบริการการศึกษา คณะทันตแพทยศาสตร์ มช.
หรือ <https://live.dent.cmu.ac.th>

10.30 -
12.00 น.

คณะมนุษยศาสตร์

Faculty of Humanities, Chiangmai University
@human.cmu

13.00 -
14.30 น.

คณะวิทยาศาสตร์

Faculty of Science, Chiang Mai University
@science.cmu

14.30 -
16.00 น.

คณะนิติศาสตร์

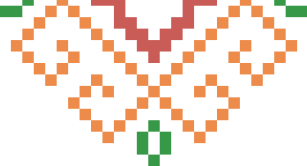
Law Cmu
@OfficialLAW.cmu



“

Promoting and Supporting
Sustainable Lifelong Learning





Faculty of Education, CMU, Executed MOU with Chiang Mai Provincial Administrative Organization for its School Development

The Faculty of Education, Chiang Mai University, and Chiang Mai Provincial Administrative Organization executed the MOU for developing the relevant schools, teachers, educational personnel, students and parents to move forward the educational quality development in Chiang Mai Province and schools under the administration of Chiang Mai Provincial Administrative Organization. It aimed to bring the benefits to schools, teachers, educational personnel, students and parents to receive an educational support for quality education in a sustainable manner. Four schools under its administration were Mae Ai Wittayakom School, Tonkaew Phadungpittayalai School, Ban Sala School, and Mae Ngon Ki Lek School. The MOU was made on 27 May 2021 at Conference Room, 4th Floor, Chiang Mai Provincial Administrative Organization, Mueang District, Chiang Mai.

Source: <https://academicser.edu.cmu.ac.th/news/2636-6e1tprefayhlj21gkw>



CMU OPEN HOUSE ONLINE 2021

Chiang Mai University held the CMU Open House Online 2021 “CMU Insight...Open House” between 20-21 November 2021 to introduce the education programs and readiness to the university along with other information of 7 faculties through Facebook Live, namely Faculty of Architecture, Faculty of Associated Medical Sciences, Faculty of Mass Communication, Faculty of Dentistry, Faculty of Humanities, Faculty of Science, and Faculty of Law to enable any interested students to receive guidance for further studies at each particular faculty within CMU.

Source: <https://www.cmu.ac.th/th/article/19f16ded-92f2-48d7-bbe5-2a714d4af69e>





Day Camp

The Faculty of Education, Chiang Mai University, as the chairperson of Network of Teacher Production and Development Institution in the Upper North hosted the Day Camp on an online platform during 7-8 April 2021. The third-year students and lecturers from the Faculty of Education in five institutions e.g. Chiang Mai University, University of Phayao, Chiang Rai Rajabhat University, Chiang Mai Rajabhat University, and Lampang Rajabhat University along with Bunditpatanasilpa Institute, Chiang Mai College of Dramatic Arts, all attended the activity.

This activity put an emphasis on the desired characteristics for building the community relationship and spatial identity as required by the competency for students under the Teachers for Local Development Project through the study from ideological teachers, teachers as change agents in the community, and interdisciplinary learning management based on the social phenomena, spatial identities, and future perspectives, building the basis for teachers as change agents. Activities for better financial management and self-healthcare practices were also provided.

Source: <https://academicser.cmu.ac.th/news/2538-41wf3f2rs6g5d7qsd66v>

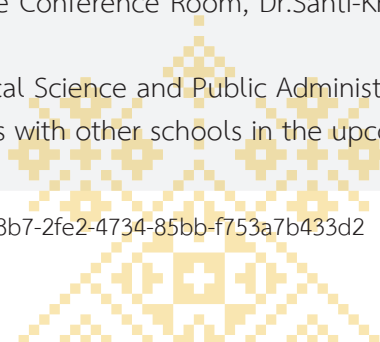


Short-term Training Program for Lifelong Learning

The Faculty of Political Science and Public Administration along with CMU School of Lifelong Education held the short-term training program for lifelong education in the Course 140104: Citizenship to students from Sanpatong Wittayakom School, whereby students who completed the training program would be certified for their competency from Chiang Mai University as “Active Citizen”. This activity was based upon the MOU for Academic Cooperation between the Secondary Educational Service Area Office, Chiang Mai and Sanpatong Wittayakom School to promote and develop the educational programs for lifelong learning to increase the opportunity and readiness for the higher education among students with capabilities and particular interest. The four main goals were an increase of students’ learning efficiency, a reduction of educational inequality, a cooperation with government sectors, local administrative organizations, private sectors and the general public, and a development of educational administration innovation. This training program was organized at the Conference Room, Dr.Santi-Khun Saeng Tien Pongpandecha, the 92-year Building, Sanpatong Wittayakom School.

Furthermore, the Faculty of Political Science and Public Administration, Chiang Mai University, has expanded its collaboration for such training programs with other schools in the upcoming years.

Source: <https://www.cmu.ac.th/th/article/9b6678b7-2fe2-4734-85bb-f753a7b433d2>



5 GENDER
EQUALITY

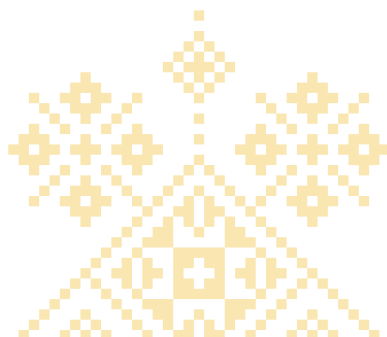


Creating Gender Equality



“

Upgrading Women's Rights
for Gender Equality





Fund “For Women in Science” 2021

Associate Professor Dr. Natda Wetchakun, Department of Physics and Materials Science, Faculty of Science, Chiang Mai University, was chosen as one of five outstanding Thai women to receive the 2021 Research Fund Project of L'OREAL Thailand's “For Women in Science” in the field of physical science from the research entitled “Nano-metal Oxides for Treatment of Polluted Water”.

This fund is supported by L'OREAL Foundation in collaboration with UNESCO for fund awarding to more than 250 new-generation female researchers at national and regional levels around the world. In Thailand, the Research Fund Project of L'OREAL Thailand “For Women in Science” is exclusively for female researchers aged between 25-40 years in two fields: biological science and physical science. L'OREAL Thailand has continuously carried out this project for 19 years, whereby Thai female researchers awarded by this project are totally 76 persons from 20 institutes.

Source: <https://www.cmu.ac.th/th/article/e54de2b2-5d44-4a31-bb79-0bca7c2f4a00>

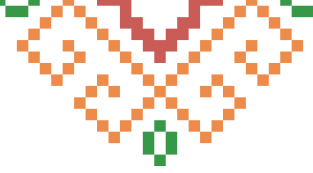
Gender Identity Dressing on Commencement Day

Chiang Mai University has realized the importance of gender equality and diversity through an issuance of CMU Announcements regarding dressing and regulations for graduates on its commencement day, allowing students to dress themselves based on their gender identity to participate in the CMU Commencement Ceremony since 2018 onwards.

These announcements all represent that Chiang Mai University puts importance on the rights and liberties for gender equality and human being to avoid discrimination, promote gender fairness, and protect the freedom of expression, leading to a state of physical, mental, social and intellectual well-being, including further self-potential development in the future.

ที่มา: <https://sdgs.cmu.ac.th/th/ArticleDetail/365afc0c-a747-424d-854d-3245560d5398>





RAINBOW's WORLDS Activity in Pride Month

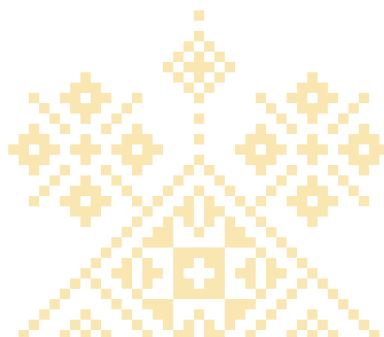
The Research Institute for Health Sciences, Chiang Mai University, through the Society of Intelligent and Sustainable Sexual Healthy Chiang Mai University, hosted the RAINBOW's WORLDS in Pride Month. Several events e.g. a seminar on "LGBTQ Rights + Present", an exhibition of CAREMAT and MPLUS, HIV testing service, and product sales in the "RAINBOW Market" were all organized. Indeed, this activity was to promote gender equality, gender diversity, sexual and mental health within the university.

ที่มา: <https://cmu.ac.th/th/article/ac4afe75-4e6e-4cea-bcfe-80e60a4d44d7>

The "Magic Dolls" Project

The Faculty of Mass Communication, Chiang Mai University, in collaboration with Thailand Institute of Justice (Public Organization) and other agencies, including CMU Lecturers Network, has implemented the Project of "Magic Dolls: Social Communication for Sexual Abuse Reduction" with aims to resolve the sexual harassment cases, particularly among the victims who are children or those with intellectual impairment or those unable to communicate about the abusive incidents. This project will enable them to talk about the incidents of sexual harassment in a clearer way. Besides, the "Magic Dolls" Project plans to send the dolls to all police stations nationwide, especially to the police stations with female inquiry officials. In fact, this project is deemed to raise social awareness and communication to make the public fully aware of the problems of sexual harassment close to them and jointly minimize the occurrence of such problems.

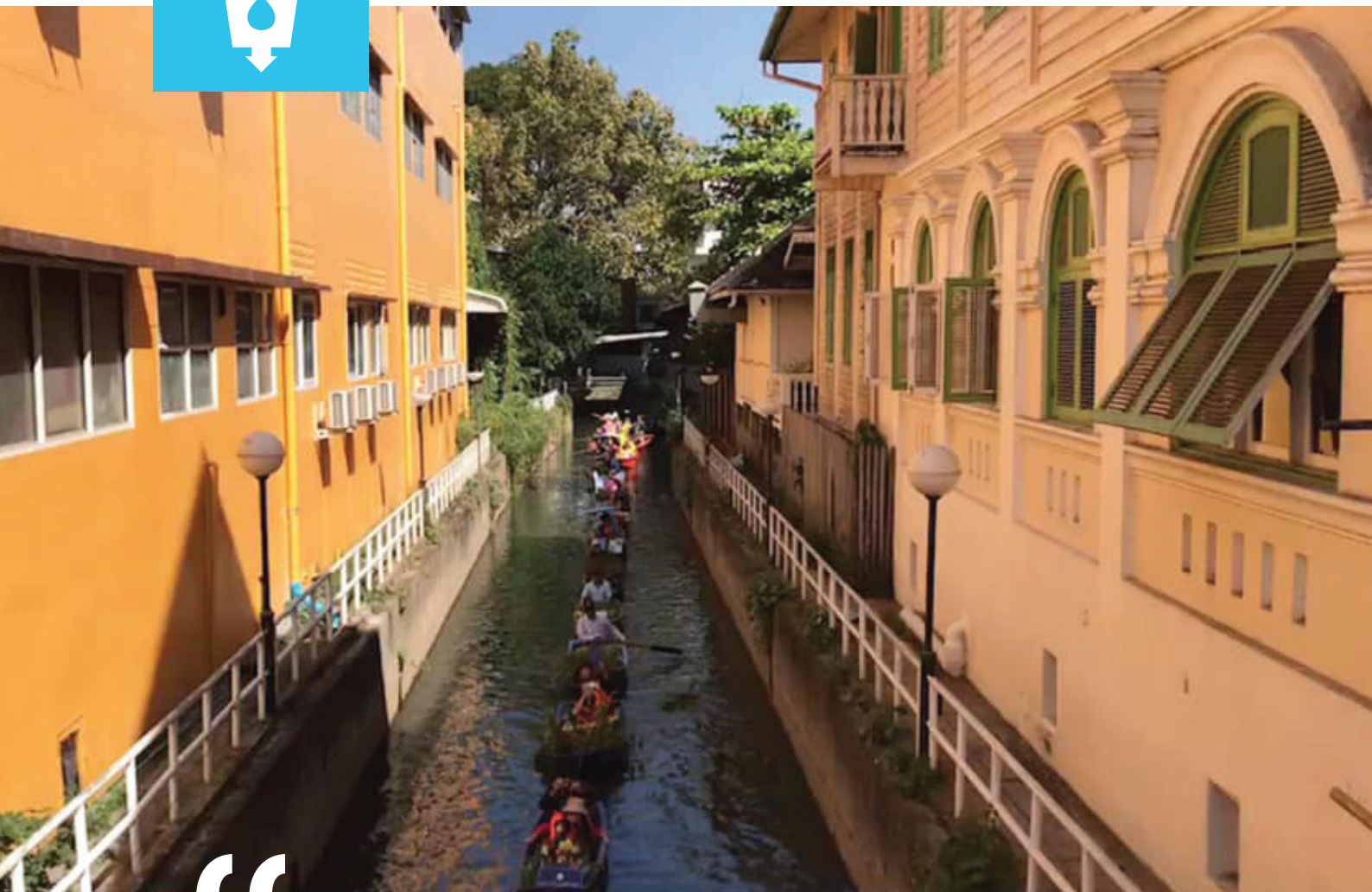
ที่มา: <https://sdgs.cmu.ac.th/th/ArticleDetail/b8022faa-0ac5-4985-bf5f-f0394ceb1a74>



6 CLEAN WATER
AND SANITATION



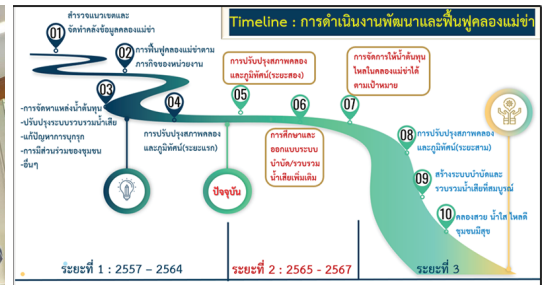
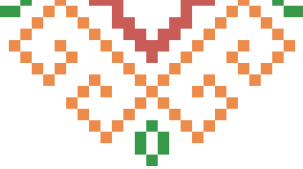
Promoting Sustainable Water Management for All



“

Rehabilitating Water Resources
in Communities for Better Life
Quality and Sustainability





Mae Kha Canal “River of Culture”

The Faculty of Engineering, Chiang Mai University, in association with Chiang Mai Province outlined the Master Plan for Mae Kha Canal No.2 (2018-2022) under the vision of “Beautiful Canal, Clean Water, Good Flow, Happy Community” whereas Yi Peng Festival at Mae Kha Canal, a river of prosperity, during 18-20 November 2021.

The activity was organized to promote the understanding of people, residing near Mae Kha River basins, toward the values and meanings of traditional culture related to the river to end and refrain from improper conducts against Mae Kha River e.g. throwing waste, releasing waste water, and making the river dirty. It was to draw good fortune for life and jointly rehabilitate Mae Kha River to turn into “Mae Kha Great River: a river of prosperity in Chiang Mai” as a river of Lanna culture, traditional lifestyle, history, priceless natural heritage, tourist destination, and historical study.

Source: <https://www.cmu.ac.th/th/article/aaf8b386-2528-4353-91ea-78c535f6a4e7>



Project of Alum-based Algae Reduction for Improvement of Water Quality and Scenery of Ang Kaew Reservoir

The Energy Research and Development Institute-Nakornping, Chiang Mai University (ERDI-CMU) implemented the project of alum-based algae reduction for improvement of water quality and scenery of Ang Kaew Reservoir. In this project, the research was undertaken by using the alum for flocculation of algal cells and the results disclosed its effectiveness, capable of eradicating 98.27 percent of algae when compared with the quantity of algae in raw water without using the flocculants. Based on this study, it is suitable to environmental rehabilitation and quality improvement of raw water resources for production of water supply to students and personnel within the university. It also improves the scenery and raises a sense of aesthetics to Ang Kaew Reservoir. The obtained knowledge can be further applied for communities or other areas in Chiang Mai that are affected by algae. It is therefore a better way to rehabilitate the environment and livelihood of the northern communities.

Source: <https://erdi.cmu.ac.th/?p=3933>

โครงการลดปริมาณสาหร่ายด้วยสารส้มเพื่อปรับปรุงคุณภาพน้ำและทัศนียภาพของอ่างแก้ว

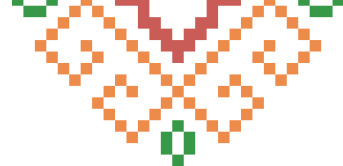
สรุปผลการดำเนินงาน

1. สาหร่ายและสิ่งสกปรกในน้ำเป็นพิษภัยในการท่องเที่ยวพักผ่อนหย่อนใจ
2. การลดปริมาณสาหร่ายด้วยสารส้มได้ผลดีในระยะเวลา 200 ลิตร

ผลการดำเนินงาน “โครงการลดปริมาณสาหร่ายด้วยสารส้มเพื่อปรับปรุงคุณภาพน้ำและทัศนียภาพของอ่างแก้ว”

1. การลดปริมาณสาหร่ายด้วยสารส้มได้ผลดีในระยะเวลา 200 ลิตร





Potential Enhancement Project for Water Supply toward Educational Support

Chiang Mai University has introduced the potential enhancement project for water supply toward educational support within Chiang Mai University “Hariphunchai” Center, Lamphun Province for sustainable water management by increasing the potential of water in the reservoir through reservoir excavations in the same position to address the crisis of environmental changes in case of prolonged droughts. It is also to use the water from its reservoir for public utilities and public facilities regarding water supply production to manage the water effectively and sustainably. A worshipping ceremony was carried out on Tuesday 19 October 2021.

Source: <https://www.cmu.ac.th/th/article/24decebb-e5b8-43de-9a06-d376fbc4d610>



7 AFFORDABLE AND
CLEAN ENERGY

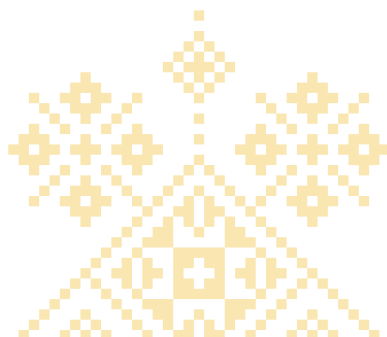


Enabling All for Sustainable Energy Access
by their Ability



“

Pushing Forward Comprehensive
Measures in Promoting
Alternative Energy and
Renewable Engery





ประกาศ สำนักงานมหาวิทยาลัย มหาวิทยาลัยเชียงใหม่ (ฉบับปรับปรุง)
เรื่อง มาตรการประหยัดพลังงาน

ด้วย มหาวิทยาลัยเชียงใหม่ มีนโยบายการจัดการสำนักงานสีเขียว (Green Office) มุ่งสร้างบรรทัดฐานให้มีสิ่งแวดล้อมที่ดี เป็นสังคมแห่งสุขภาพและเป็นสำนักงานต้นแบบด้านการจัดการสิ่งแวดล้อมโดยได้กำหนดมาตรการประหยัดพลังงานเพื่อร่วมกัน ควบคุม การใช้พลังงานภายในสำนักงานในมหาวิทยาลัยฯ ให้มีประสิทธิภาพ มีการจัดการการใช้พลังงานอย่างเป็นระบบและเกิดประโยชน์สูงสุด ดังต่อไปนี้

มาตรการด้านการประหยัดไฟฟ้า

๑. ไฟฟ้าแสงสว่าง
 - ๑.๑ ปิดสวิทช์ไฟฟ้าทุกครั้งเมื่อไม่ได้ใช้งาน และ/หรือช่วงพักกลางวัน ยกเว้นสำหรับผู้ปฏิบัติงานในเวลาราชการกลางวัน ให้เปิดเฉพาะพื้นที่ที่จำเป็น
 - ๑.๒ ออกลืมหลอดไฟฟ้า เมื่อเลิกใช้งาน
 - ๑.๓ ใช้หลอดไฟฟ้าประหยัดพลังงาน
 - ๑.๔ ตรวจสอบอุปกรณ์ไฟฟ้า แสงสว่าง ตามแผนงานบำรุงรักษา
๒. การใช้เครื่องปรับอากาศ
 - ๒.๑ ตั้งอุณหภูมิไม่ต่ำกว่า ๒๕ องศาเซลเซียส
 - ๒.๒ เปิดและปิดเครื่องปรับอากาศในสำนักงานให้เป็นไปตามที่กำหนด ดังนี้
 - ช่วงเช้า เปิดเวลา ๐๙.๐๐ น. และปิดเวลา ๑๑.๓๐ น.
 - ช่วงบ่าย เปิดเวลา ๑๓.๐๐ น. และปิดเวลา ๑๖.๑๕ น.
 - หรือปิดก่อนเวลาเลิกใช้งาน ๑๕ นาที
 - ทั้งนี้ ขึ้นอยู่กับสภาพอากาศโดยต้องผ่านความเห็นชอบหัวหน้าหน่วยงานนั้น ๆ
 - ๒.๓ การใช้ห้องประชุม ให้เปิดก่อนเริ่มการประชุมไม่เกิน ๑๐ นาที และปิดทันทีเมื่อเสร็จสิ้นการประชุม
 - ๒.๔ ทำความสะอาดแผ่นกรองอากาศ เดือนละ ๑ ครั้ง
 - ๒.๕ ทำความสะอาดถังเก็บน้ำทิ้ง อย่างน้อยปีละ ๒ ครั้ง
 - ๒.๖ ปิดประตู หน้าต่าง ห้องทำงานสนิท เพื่อไม่ให้เกิดการสูญเสียความร้อน
 - ๒.๗ งดการทำการงานของเครื่องปรับอากาศ โดยย้ายสิมการที่ไม่จำเป็นต้องใช้เครื่องปรับอากาศ
 - รวมถึงยกลำโพงที่ไม่ได้ใช้งานประจำ ให้จัดเก็บตามระเบียบว่าด้วยงานสาธารณูปโภค
 - ๒.๘ ตรวจสอบเครื่องปรับอากาศตามแผนบำรุงรักษาเครื่องปรับอากาศ

Announcement on Energy-saving Measures, Office of the University, CMU (Revised Edition) 2021

Chiang Mai University has set out its policy for Green Office to create the society with good environment for the well-being society and the model office for environmental management. The university therefore issued the CMU Announcement (Revised Edition) on Energy-saving Measures on 26 July 2021 that covered the saving measures for electricity, water, oil fuel, and office supply, including the measure for meeting arrangement and exhibition, the measure for 5s cleanliness, the measure for waste management, the measure for eco-friendly procurement and service, the measure for safety and emergency, and the measure for green spaces. These measures are believed to supervise and control the energy consumption at Office of the University in an effective way along with the systematic energy management and maximum benefits.

Source: <https://oou.cmu.ac.th/news/cd554d314e2bfaae9a5f2bf338686d70/70f94e5eb20bdbc985062db7c12ba17d>

Thailand Voluntary Emission Reduction Program (T-VER) at Biomass plant

โครงการลดก๊าซเรือนกระจกภาคสมัครใจตามมาตรฐานของประเทศไทย (T-VER)

Training 24 กันยายน 2564 เวลา 15.00-16.30 น.




ผู้จัดการงานศูนย์บริหารจัดการชีวมวลนครวม มช.




Thailand Voluntary Emission Reduction Program (T-VER) at Biomass plant

<http://ghgreduction.tgo.or.th/th/t-ver.html>

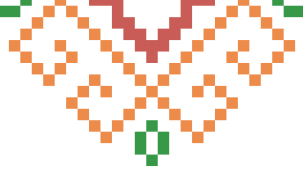
ลำดับ	ชื่อยานยนต์	ผู้ถือกรรมสิทธิ์	ผู้รับผิดชอบ	ประเภทโครงการ	ปริมาณการลดก๊าซเรือนกระจก (tCO ₂ e/year)	เป็นภาคีร่วมกับหน่วยงานอื่นหรือไม่
243	243	Bio-gas Production from Food waste for Utilization in Chiang Mai University	ศูนย์บริหารจัดการชีวมวลนครวม มช. (55 ม.2) 2 ปี (เริ่มเมื่อ 14/09/21)	พลังงานทดแทน (A2-VH)	395	
244	244	Biodiesel production as a vehicle fuel at Biomass plant, Chiang Mai University	ศูนย์บริหารจัดการชีวมวลนครวม มช. (55 ม.2) 2 ปี (เริ่มเมื่อ 14/09/21)	พลังงานทดแทน (A2-VH)	8	

❖ GHG ที่ลดได้จากการดำเนินงาน: 403 tCO₂e/year

T-VER Registration for Emission Reduction and Sustainable Development

The Integrated Biomass Management Center, Energy Research and Development Institute – Nakornping, Chiang Mai University (ERDI-CMU), was commemorated for its implementation of greenhouse gas reduction under Thailand Voluntary Emission Reduction Program or T-VER by Thailand Greenhouse Gas Management Organization (Public Organization). Two projects registered under the T-VER Project included the followings: 1) Biogas Production from Food Waste for Utilization and 2) Biodiesel Production as a Vehicle Fuel at Biomass Plant, Chiang Mai University. It is estimated that these projects will reduce the amount of greenhouse gases in a total of 403 tons of carbon dioxide equivalent per year.

Source: <https://erdi.cmu.ac.th/?p=4095>



The Study Project of Guidelines on Hydrogen Production and Utilization for Renewable Energy Promotion

The Energy Research and Development Institute – Nakhonping, Chiang Mai University (ERDI-CMU) and the Energy Research Institute, Chulalongkorn University, were assigned by the Energy Policy and Planning Office, Ministry of Energy, to carry out “The Study Project of Guidelines on Hydrogen Production and Utilization for Renewable Energy Promotion”. It was undertaken to study and collect the research papers, policies, measures or work plans related to development, production, and utilization of hydrogen by agencies, both domestic and overseas. Eventually, the guidelines on hydrogen production and utilization suited to the energy consumption in Thailand, including fair and reasonable prices for Thailand to further promote the hydrogen energy, would be determined.

Source: <https://erdi.cmu.ac.th/?p=3812>

Tao Ngoi Model: CBG for Happiness and Alternative Energy for Community

The Energy Research and Development Institute – Nakhonping, Chiang Mai University (ERDI-CMU) in cooperation with Doi Kham Food Products Co., Ltd. jointly held “Promotion and Demonstration Project of Biomethane Utilization through Transmission Pipelines for LPG Replacement in the Model Community” to study the compressed biomethane gas (CBG) for LPG replacement in the transmission pipelines. This project was financially supported by Energy Conservation and Promotion Fund, Energy Policy and Planning Office, Ministry of Energy.

This project realized the importance of energy consumption in the community located in Na Ngoi Village and Pone Pla Lai Village, Tao Ngoi Sub-district, Tao Ngoi District, Sakon Nakhon Province and delivered the model station for CBG production and distribution on 2 April 2021. It was also to provide the sustainable energy guidance to communities based on self-reliance for their joint management of alternative energy to serve as a model for practical utilization in Thailand. In this way, CBG would be used in households to lower the costs for LPG and utilize the energy in a sufficient and sustainable manner within the communities while reducing the reliance on LPG imports from foreign countries.

Source: <https://erdi.cmu.ac.th/?p=3453>



8 DECENT WORK AND
ECONOMIC GROWTH

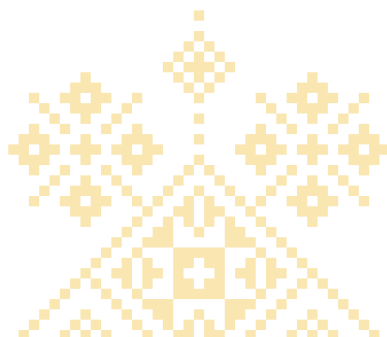


Promoting Sustainable Economic Growth



“

Encouraging and Upgrading
Economy of Community
to Regional Level



Science CMU Job Fair Online 2021

The Faculty of Science, Chiang Mai University, organized “Science CMU Job Fair Online 2021” on an online platform through Facebook Live: Faculty of Science, Chiang Mai University, on 10 February 2021. A variety of activities e.g. a seminar titled in “Job Application and Life after Graduation”, introduction to business establishments, job positions, and job positions for cooperative education/training by leading companies along with instructions for job interviews through Zoom Application to promote the occupational opportunities to students and access to information of labor markets suited to their professional disciplines.

Source: <https://www.cmu.ac.th/th/article/a7005df4-8d58-4c7c-b9b1-039b63ff9708> และ <https://www.facebook.com/CoopeducationCMU/posts/pfbid02CWcr1X3188rUe4YT5k8oeQS3LMR2zFfHABV95fwnrpEJeSyj9LBieb4vZU7fRSGL>



SCIENCE CMU JOB FAIR online 2021
10 กุมภาพันธ์ 2564 09.00 - 16.00 น.

ถ่ายทอดสดผ่านทาง **FACEBOOK LIVE**
Faculty of Science, Chiang Mai University

ช่วงที่ 1
08.30 - 09.00 น.
ศาสตราจารย์ ดร.ไพรัช ธัชยพงษ์
คณบดีคณะวิทยาศาสตร์
กล่าวต้อนรับ
สถานประกอบการ

ช่วงที่ 2
09.00 - 09.30 น.
เสวนา หัวข้อ **พี่เล็ก พี่คุณ**
การสมัครงาน และชีวิตหลังเรียนจบ
โดย ศาสตราจารย์ ดร.ไพรัช ธัชยพงษ์

ช่วงที่ 3
09.30 - 11.00 น.
Cube SoftTech, XENIPICS, CanadianSolar, HOYA, muRata, HANA, HKK, g able, iiG, HUMANICA
แนะนำสถานประกอบการ
ตำแหน่งงาน

ช่วงที่ 4
11.00 - 11.30 น.
QUIZ GAME
ตอบคำถาม และแจกของรางวัล

ช่วงที่ 5
11.30 - 12.00 น.
ชี้แจงวิธีการสมัครงาน
ของแต่ละบริษัท

ช่วงที่ 6
12.00 - 13.00 น.
พัก

ช่วงที่ 7
13.00 - 16.00 น.
สัมภาษณ์งาน
สัมภาษณ์
นักศึกษาคณะวิทยาศาสตร์/ศึกษา
ผ่าน ZOOM

* กำหนดการ อาจมีการเปลี่ยนแปลงตามความเหมาะสม



SCIENCE CMU JOB FAIR online 2021
10 กุมภาพันธ์ 2564 09.00 - 16.00 น.

ถ่ายทอดสดผ่านทาง **FACEBOOK LIVE**
Faculty of Science, Chiang Mai University

พบกับ
บริษัทชั้นนำ
ที่จะมารับสมัครและสัมภาษณ์งาน
บัณฑิต นักศึกษาฝึกงาน
และนักศึกษาคณะวิทยาศาสตร์
ในรูปแบบ Online

พี่เล็ก พี่คุณ
เสวนา หัวข้อ **การสมัครงาน และชีวิตหลังเรียนจบ**
โดย ศาสตราจารย์ ดร.ไพรัช ธัชยพงษ์

ดูตำแหน่งงาน
และเตรียมเอกสารให้พร้อม

ติดต่อสอบถามรายละเอียดเพิ่มเติมได้ที่
หน่วยงานศูนย์บริการนักศึกษาและบัณฑิต
คณะวิทยาศาสตร์ มช.
☎ 053943466 (ภายใน) 📧 scmu@cmu.ac.th
📍 หน่วยงานศูนย์บริการนักศึกษา
คณะวิทยาศาสตร์ มช.

“Happy Money Guide” Project

The Faculty of Nursing hosted the Project of Happy Money Guide on Monday 30 August 2021 through Zoom Meeting due to the importance of savings promotion and personal financial plan for good financial health to its personnel or Happy Money, one essential factor for Happy Workplaces. It was believed to help personnel work with their full capacity and happy working, leading to excellent performance and more effectiveness of the organization.

Source: https://mis.nurse.cmu.ac.th/mis/project/view_project_detail.asp?id=6682



“MORE SPACE: New CMU Community”

Chiang Mai University has arranged a wide space (Ford Plantation) for utilization, bearing the name of “MORE SPACE”, whereby the space is allocated for movement and revenue generation from selling commodities. It is also used as a core area for activities regarding the creative cultural promotion. This space is divided into 3 respective zones: 1) Music Playground MORE SPACE; 2) Kiosk MORE SPACE; and 3) Night Market MORE SPACE.

Chiang Mai University builds a community near the campus and city center to promote tourism in Chiang Mai and generate cash flows in the future economic system while increasing the opportunities and business channels for various shops along with more employment and job creation to the public.

Source: <https://www.cmu.ac.th/th/article/94833f81-cc78-410f-b3d4-d3b5b1c3140e>



Build Resilient Infrastructure, Promote Inclusive and Sustainable Industrialization and Foster Innovation

การยกระดับการวิจัยและพัฒนาของผู้ประกอบการ
ด้วยเครือข่ายโครงสร้างพื้นฐาน วิทยาศาสตร์ วิจัย และนวัตกรรม

RD FACILITIES BOOST UP

รับสมัคร
ตั้งแต่วันนี้
ถึง 25 มิถุนายน
2564

ให้ทุนสนับสนุนเฉพาะห้องปฏิบัติการ/โรงงานต้นแบบ
ที่ลงทะเบียนในระบบฐานข้อมูลโครงสร้างพื้นฐานทางวิทยาศาสตร์ วิจัย และเทคโนโลยี
stdb.mhesi.go.th

Track 1

สนับสนุนการวิเคราะห์ ทดสอบ ในห้องปฏิบัติการ

- อุทยานฯ ให้ทุนสนับสนุนไม่เกินร้อยละ 80 ของค่าใช้จ่ายที่เกิดขึ้นในโครงการ หรือไม่เกินวงเงิน 100,000 บาท ต่อโครงการ
- ผู้ประกอบการหรือเอกชนที่เข้าร่วมโครงการสนับสนุนเงินทุน (in-cash) โดยคิดเป็นมูลค่าอย่างน้อย ร้อยละ 20

Track 2

สนับสนุนการผลิตต้นแบบในโรงงานต้นแบบและตรวจวิเคราะห์ ทดสอบ ในห้องปฏิบัติการ

- อุทยานฯ ให้ทุนสนับสนุนไม่เกินร้อยละ 80 ของค่าใช้จ่ายที่เกิดขึ้นในโครงการ หรือไม่เกินวงเงิน 300,000 บาท ต่อโครงการ
- ผู้ประกอบการหรือเอกชนที่เข้าร่วมโครงการสนับสนุนโดยคิดเป็นมูลค่าอย่างน้อย ร้อยละ 20 in-cash ร้อยละ 10 และ in-kind ร้อยละ 10

CONTACT

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นางสาวสิริมา หวังดี
☎ 094-7211669
✉ sirinapa@step.cmu.ac.th

REGISTER

MAKE EVERY IDEAS SIMPLE

THE BRICK FAB LAB

PRUSA i3 MK3
Fused filament fabrication

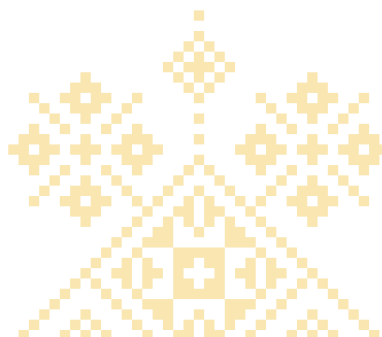
Z-MAT VMC 420E
MILLING

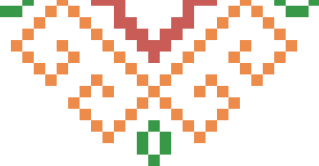
SINTERIT LISA
Selective Laser Sintering

DESKTOP METAL STUDIO SYSTEM
Bound Metal Deposition
PRINT DEBINING SINTER

“

Foster Innovation, Advance
Technology, Become a Digital
University

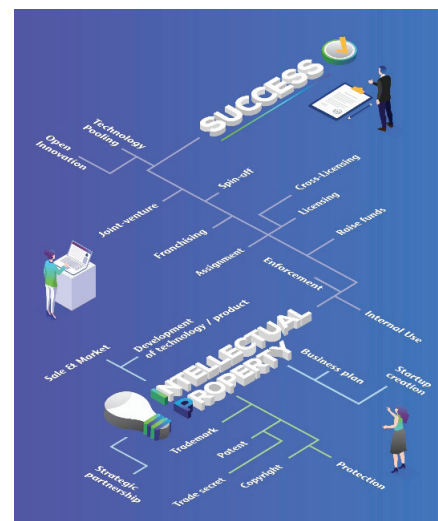




AKIP VENTURE: Expanding Research to Business and Industrial Sectors

Angkaew Holding Company Limited, Chiang Mai University, and Intellectual Design Group (IDG) Company Limited co-founded AKIP Venture Company Limited or AKIP VENTURE in order to complement a mechanism for driving intellectual property and research in business and industrial sectors. It also supports technology transfer and brand development. It provides intellectual property services from the initial stages of research and development to business operations to maximize commercial and social impact. The services are provided to all researchers, startups, and general business groups. Its four areas of services include

- 1) PATENT – one-stop services for patent, petty patent, design patent registration both national and international
- 2) TRADEMARK – trademark filing services both national and international
- 3) ANALYTIC – patent analysis services for both national and international
- 4) TRAINING COURSE – training courses on intellectual property from the experts



Source: <https://www.akipventure.com/#customize-18137>

การยกระดับการวิจัยและพัฒนาของผู้ประกอบการ
ด้วยเครือข่ายโครงสร้างพื้นฐาน วิทยาศาสตร์ วิจัย และนวัตกรรม

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stddb.mhesi.go.th

Track 1

สนับสนุนการวิเคราะห์ ทดสอบ ในห้องปฏิบัติการ

- อนุญาตให้ใช้ประโยชน์ได้ไม่เกินร้อยละ 80 ของค่าใช้จ่ายที่เกิดขึ้นในโครงการ หรือไม่เกินวงเงิน 100,000 บาท ต่อโครงการ
- ผู้ประกอบการหรือเอกชนที่เข้าร่วมโครงการสนับสนุนเงินทุน (In-cash) โดยคิดเป็นมูลค่าอย่างน้อย ร้อยละ 20

Track 2

สนับสนุนการผลิตต้นแบบในโรงงานต้นแบบ และตรวจวิเคราะห์ ทดสอบ ในห้องปฏิบัติการ

- อนุญาตให้ใช้ประโยชน์ได้ไม่เกินร้อยละ 80 ของค่าใช้จ่ายที่เกิดขึ้นในโครงการ หรือไม่เกินวงเงิน 300,000 บาท ต่อโครงการ
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CONTACT

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REGISTER

RD Facilities Boost Up

Northern Science Park (Chiang Mai) calls for applications to participate in RD Facilities Boost Up 2021 – the project of upgrading the research and development of the entrepreneurs with network infrastructure, science, research and innovation. It is open for entrepreneurs who are interested in analyzing and testing their products, or want to expand their production capacity from the exemplar factory with pre-production standards at the industrial level. The project covers a wide range of industries including Thai rice innovation, IT, Software, digital content, renewable energy, environment, agricultural and food innovation, medical, and biotechnology. The entrepreneurs participating in the project will receive budget support based on the type of project.

Source: https://www.step.cmu.ac.th/news_specific.php?news_id=486

REGISTER



One-stop 3D Molding Technology Center (The Brick FABLAB)

Northern Science Park (Chiang Mai) launched a one-stop 3D Molding Technology Center (The Brick FABLAB) which provides 3D design and molding services with a variety of 3D printer technology. The purpose of this center is to create innovations or products that create commercial value. With a variety of printing systems, it can meet all needs, simplify production process, save time, control budget, and produce a full range of special features. This will facilitate entrepreneurs, students and those who are interested in creating innovations or prototypes.

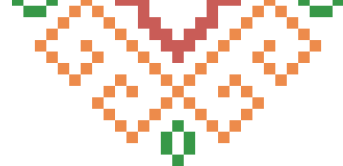
Source: https://www.step.cmu.ac.th/news_specific.php?news_id=588



CMU: the First 5G Powered University in ASEAN

Chiang Mai University and Huawei Technology, have together signed an MOU – “5G Powered Smart University Enabled with Cloud and AI” on the 22nd March 2021 at Information Technology Service Center, Chiang Mai University. The institution has aimed to be the top digital university in the ASEAN region and a leader in higher education that enhances technology and skills outside the classroom. This cooperation with Huawei is an important step for the university to bring the modernization of 5G technology to facilitate learning ability in classrooms, and research capacity that supports the growth of the digital world. This also leads Chiang Mai University to become the first 5G smart university in ASEAN, raising the standard of Thai higher education.

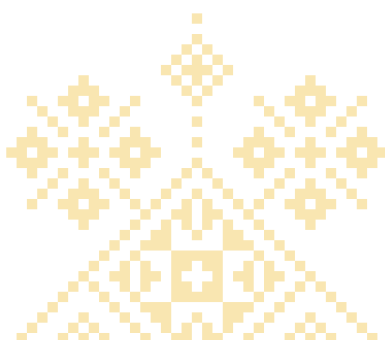
Source: <https://www.cmu.ac.th/th/article/e58fcdc7-dc19-4946-844a-caad4b3ee749>



“Adding Rice Straw Value through Innovation of Rice Straw Pulp and Aerated Building Materials to Sustainably Reduce Environmental Pollution in the North”

Chiang Mai University and the Office of the National Farmers Council collaborated in initiating a project, “Adding Rice Straw Value through Innovation of Rice Straw Pulp and Aerated Building Materials to Sustainably Reduce Environmental Pollution in the North.” The project integrates cooperation from researchers from many departments of Chiang Mai University, including Faculty of Agro-Industry, Faculty of Engineering, Northern Science and Technology Park, Institute of Public Policy, and the Lanna Rice Research Center as the main unit for coordinating and transferring technology and innovation. The National Farmers Council has reached out to the farmer groups in the eight target areas in the upper northern provinces (Lamphun, Chiang Mai, Chiang Rai, Mae Hong Son, Lampang, Phayao, Phrae and Nan) to promote the utilization of rice straw to reduce the haze and smog problem in the region. It also supports zero waste from the paddy fields, leading to change in disposing methods, from burning rice straw to transforming it into useful products. This creates a sustainable circular economy, generates income to communities and brings sustainability to the Thai economy.

Source: <https://sdgs.cmu.ac.th/th/ArticleDetail/ba6fb8af-2f04-43ee-b3f9-67d0e03da088>



10 REDUCED
INEQUALITIES



Reduce Inequality Both Within and Among Countries

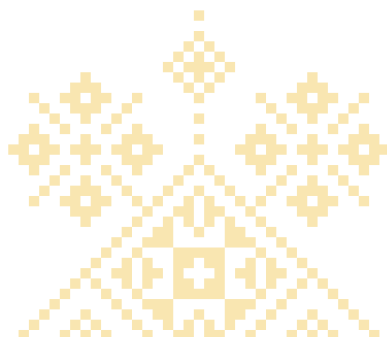


ศูนย์นวัตกรรมสุขภาพ
(MEDCHIC)

คณะแพทยศาสตร์
มหาวิทยาลัยเชียงใหม่



Eliminate Inequality and Ensure
Equal Opportunities



บทบาทในการขับเคลื่อนความเสมอภาคทางการศึกษา เศรษฐกิจและสังคม

การขยายโอกาสทางการศึกษา

มหาวิทยาลัยได้ดำเนินการรับนักศึกษาในโครงการพิเศษต่าง ๆ เพื่อเป็นการขยายโอกาส ลดความเหลื่อมล้ำทางการศึกษา มุ่งสนับสนุนและส่งเสริมให้ผู้มีความสามารถพิเศษได้มีโอกาสพัฒนาศักยภาพที่มีอยู่ ให้มีโอกาสได้นำความรู้ความสามารถมาใช้ประโยชน์ในการสร้างสรรค์ผลงานในระดับนานาชาติ ให้เกิดประโยชน์ต่อการพัฒนาสังคม อาทิ



ผลกระทบจากการดำเนินงานของมหาวิทยาลัยต่อเศรษฐกิจและสังคม



Roles of Chiang Mai University in Driving Equality in Education, Economy and Society

Chiang Mai University promotes equality in education, economy and society by expanding opportunities and reducing educational inequality. The university aims to support and encourage those with special skills to have the opportunity to develop their existing potential. They will have the opportunity to apply their knowledge and skills in particular fields through various projects, including:

- 1) Collaborative Project to Increase Production of Rural Doctor (CPIRD)
- 2) Higher education opportunities for well-behaved students
- 3) Scholarships for underprivileged students with great academic performance
- 4) Scholarships for hill tribe students
- 5) Higher education opportunities for student athletes
- 6) Higher education opportunities for social thinkers
- 7) Kru Rak Thin Project – opportunities for students from remote areas to study teacher education and return to their home communities to work in protected/stand-alone schools



Chiang Mai University Scholarships 2021

Chiang Mai University and Chiang Mai University Promotion Board offered scholarships for the academic year 2021 to support underprivileged students and create opportunities for them to study in various fields and become graduates of Chiang Mai University. The funding source for scholarships come from the university's income and donations from individuals, companies, corporations, foundations, and organizations. In the academic year 2021, students were awarded a total of 593 scholarships worth 12,135,800 baht. These scholarships include 51 full-ride scholarships, 382 scholarships awarded for a period of one academic year, 60 scholarships for students who are truly financially deprived, and 100 preparatory scholarships for high school students.

Source: <https://www.cmu.ac.th/th/article/64e9356f-97cb-47eb-9dc8-9e882297defe>

- 8) Woman in Engineering
- 9) Mae Chaem and Omkoi Development Project
- 10) Promoting the underprivileged, the handicapped and the gifted
- 11) Higher education opportunities for Thai-Muslim students from five southern border provinces
- 12) Higher education opportunities for students with agricultural background

Source: <https://www.cmu.ac.th/CMUArticle/ArticleDownload.aspx?id=16c97305-5951-441a-bf4e-d3c8e015f305>



Digital Art Contest on the topic “People with Disabilities and the Power to Inspire”

Chiang Mai University awarded students who participated in a digital art contest on the topic “People with Disabilities and the Power to Inspire.” The drawings convey the stories of students with disabilities at Chiang Mai University highlighting their potential and self-improvement which are the power to inspire people. The results of the contest include three winners, two consolation prizes, and one popular choice award.

Source: <https://www.cmu.ac.th/th/article/e2e37fed-f9aa-4e60-a241-f12a8a475192>

From Doctor to “Innovator”

The Faculty of Medicine, Chiang Mai University (CMU) has selected personnel to work in the Health Innovation Center (MedCHIC). Its goal is to develop the Faculty of Medicine, CMU to become an “Innovative Medical School,” with four strategies:

- 1) Medical device innovation
- 2) Health Technology
- 3) Natural Products
- 4) Suandok Medical Innovation District

The Health Innovation Center encourages doctors to innovate, study, and evaluate the practicality of the medical devices, their marketing values and theoretical and practical possibilities. Moreover, the MedCHIC promotes innovation development with experts from various faculties of CMU. In order for the innovation to be practical and able to be commercialized, there is a legal team to take care of intellectual property matters and other legal aspects related to medical devices.

In addition, the Health Innovation Center has created a medical device brand for the elderly and the disabled, called Rehabpy. The medical devices from Rehabpy are developed by innovators who see problems, and have gone through a patient satisfaction testing process.



Source: <https://sdgs.cmu.ac.th/th/ArticleDetail/5738e4c6-67a0-46e5-b5b7-15d01ee7b40c>



11 SUSTAINABLE CITIES
AND COMMUNITIES



Make Cities and Human Settlements Inclusive, Safe,
Resilient and Sustainable.

SMART CITY Thailand



มช. รับมอบตราสัญลักษณ์ Smart City Thailand
ได้รับการรับรองเป็น “พื้นที่พัฒนาเมืองอัจฉริยะ” 1 ใน 15 เมืองอัจฉริยะของประเทศ

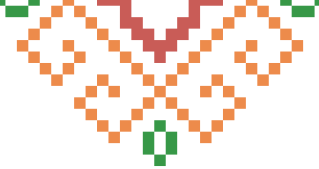


CMU
SMART CITY

“

Build a Smart City to be
a Model Community Within
Chiang Mai University





CMU: a Smart City Development Zone

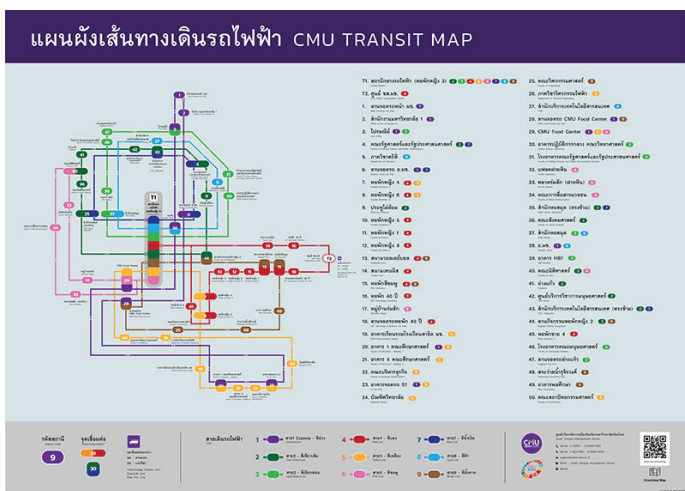
Chiang Mai University has been selected as one of 15 “Smart City Development Zones,” by the Digital Economy Promotion Agency (DEPA), Ministry of Digital Economy and Society. The University was given a certificate and a Smart City Thailand badge on the 24th December 2021.

Chiang Mai University has been certified as a smart city development zone in all seven aspects:

- 1) Smart Environment
- 2) Smart Energy
- 3) Smart Economy
- 4) Smart Mobility
- 5) Smart People
- 6) Smart Living
- 7) Smart Governance

Chiang Mai University believes that its smart city project, “CMU Smart City: Sustainable Excellence for the Community,” will be a concrete model in sustainable urban area development for CMU Community which can also be beneficial for surrounding communities to develop sustainably.

Source: <https://www.cmu.ac.th/th/article/278e6bb1-5a60-4725-ad9a-22994693aa70>



CMU Smart Transit Map

Chiang Mai University has adjusted the new shuttle bus route plan to be more efficient and meet the needs of service users. The principle is that users are able to reach their destination and change the line only once. In addition, new routes have been added to reduce distances and waiting time, covering more of study buildings, dormitories, and other main places in the university. The map can be downloaded at <https://cmu.to/transitmap>

Source: <https://www.cmu.ac.th/th/article/f4888827-72cd-4e6b-ae9-3899651ca6e6>







ช่องทางการสื่อสาร

[สำหรับบุคลากรสำนักงานมหาวิทยาลัย อาคาร 2]

สื่อสารให้ความรู้ความเข้าใจ สร้างการรับรู้ตระหนักและการมีส่วนร่วมของบุคลากรสำนักงานมหาวิทยาลัยในการใช้ทรัพยากรและพลังงานอย่างคุ้มค่า/เหมาะสม มีบันทึกกับสิ่งแวดล้อมและยั่งยืน

เว็บไซต์
สำนักงานสีเขียว



<https://greenoffice.wvu.ac.th/>

Facebook
สำนักงานมหาวิทยาลัย



<https://www.facebook.com/guo.wvu/>

 **LINE**

- บุคลากร ธงม. (อาคาร 2)
- แผนกบริหารงานอาคาร (อาคาร 2)
- ผู้ประกอบการร้านอาหาร (อาคาร 2)
- แผนกบริหารงานอาคาร (บม.)
- คณะทำงานขับเคลื่อน CMU Green Office
- คณะทำงาน SDD Green Office

ป้าย
ประชาสัมพันธ์



- สรุป -
การดำเนินการ
ให้ความรู้

<https://cmu.ac.th/greenoffice/>



[illegible]

Green Office – Excellent (Gold) Level 2021

Chiang Mai University (CMU) aims to be a Green & Clean CMU Sustainability Campus, thus university departments/units are encouraged to implement Green Office project to help drive the university to achieve its goals. The University Office therefore uses “Building 2 of the University Office” as the pilot building for the project implementation and as a model for green office in the future. As a result, it has been certified Green Office with excellent (gold) level for the year 2021 from the Department of Environmental Quality Promotion, Ministry of Natural Resources and Environment. The six indicators for the project implementation are electricity consumption, fuel consumption, water consumption, paper consumption, waste generation, and greenhouse gas emission.

Source: <https://www.cmu.ac.th/th/article/f6d47b45-4b13-409c-beb2-fb2ec1889dd8>

ประเภทการใช้งาน	จัดสรรงบประมาณ	ข้อเสนอแนะ
การให้ไฟฟ้า ★	พบว่า ระหว่างเดือน มิ.ย. - พ.ค. มีการใช้พลังงานไฟฟ้ามากกว่าเกณฑ์ในเดือน มี.ย. มีการใช้พลังงานเกินกว่าเกณฑ์	ผู้กำกับควรตรวจสอบเรื่องไฟฟ้าในชุมชน โดยนำข้อมูลมาจัดซื้อ ใช้พลังงานตาม ความต้องการมากขึ้นเพื่อ "ลด" ค่า การซื้อไฟฟ้าจากภายนอก
การให้รถเพื่อใช้ ★★★★	พบว่า ระหว่างเดือน มิ.ย. - มี.ย. มีการใช้รถไปมากกว่าเกณฑ์และเกินอัตราที่กำหนด	ปฏิบัติตามมาตรการ ประหยัดพลังงานตามข้อแนะนำ
การใช้น้ำ ★★★★	พบว่า ระหว่างเดือน มิ.ย. - มี.ย. มีการใช้ใช้น้ำมากกว่าเกณฑ์	ปฏิบัติตามมาตรการ ประหยัดพลังงานตามข้อแนะนำ
การใช้รถยก ★★★★	พบว่า ระหว่างเดือน มิ.ย. - มี.ย. มีการใช้รถยกมากกว่าเกณฑ์	ปฏิบัติตามมาตรการ ประหยัดพลังงานตามข้อแนะนำ
ปริมาณขยะ ★★★★	พบว่า ระหว่างเดือน มิ.ย. - มี.ย. มีการผลิตขยะ สูงกว่าเกณฑ์เล็กน้อย อย่างไรก็ตามผู้กำกับสามารถปรับปรุง	ปฏิบัติตามมาตรการ ประหยัดพลังงานตามข้อแนะนำ
ปริมาณก๊าซเรือนกระจก ★★★★	พบว่า ระหว่างเดือน มิ.ย. - มี.ย. มีการปล่อยก๊าซเรือนกระจกใช้เชื้อเพลิงเกินเกณฑ์	ใช้พลังงานตามมาตรการ 4 และมีการควบคุมปริมาณการใช้ไฟฟ้า

The image shows a green-themed logo for CMU Green Office. At the top left is a circular emblem with a purple background, featuring a white elephant and Thai text. Below it, the text 'ขอแสดงความยินดี' (Congratulations) is written in purple. Underneath that, 'สำนักงานมหาวิทยาลัย มหาวิทยาลัยเชียงใหม่' (University Office, Chiang Mai University) is written in black. The main part of the logo consists of the letters 'CMU' in a large, bold, green font, where the letters are filled with a pattern of green leaves. Below 'CMU' is the text 'GREEN OFFICE' in a smaller, bold, green font. At the bottom, there is a line of text in Thai: 'ที่ได้รับรางวัลสำนักงานสีเขียว (Green Office) ระดับประเทศ ประจำปี 2564' (Received Green Office Award, National Level, 2564). Below this is 'รางวัลดีเยี่ยม (ทอง)' (Excellent Award (Gold)). At the bottom right is a small circular logo with a green background, showing a building and the text 'CMU GREEN OFFICE'.



Ensure Sustainable Consumption and Production Patterns



Midstream

From
distributors
to end-users

VALUE CHAIN

INTEGRATING ECO-FRIENDLY PACKAGING TO GLOBAL VALUE CHAIN



“

From waste to value with
sustainable resource management





National Green Office Excellent (Gold) Level Certification

Three Chiang Mai University departments, namely the Library, University Office Building 2, and the Office of Arts and Culture Promotion, have been certified Green Office with excellent (gold) level for the year 2021 from the Department of Environmental Quality Promotion, Ministry of Natural Resources and Environment. According to the Green Office management policy, it aims at creating good and healthy environment for the society.

In this regard, the Green Office Promotion Program emphasizes that all CMU personnel must be involved and aware of the responsible use of resources and energy by changing behaviors and participate in the program, leading to sustainable environmentally friendly consumption.

Source: <https://www.cmu.ac.th/th/article/92080aa7-c942-4c02-b4a2-afe59d323e39>

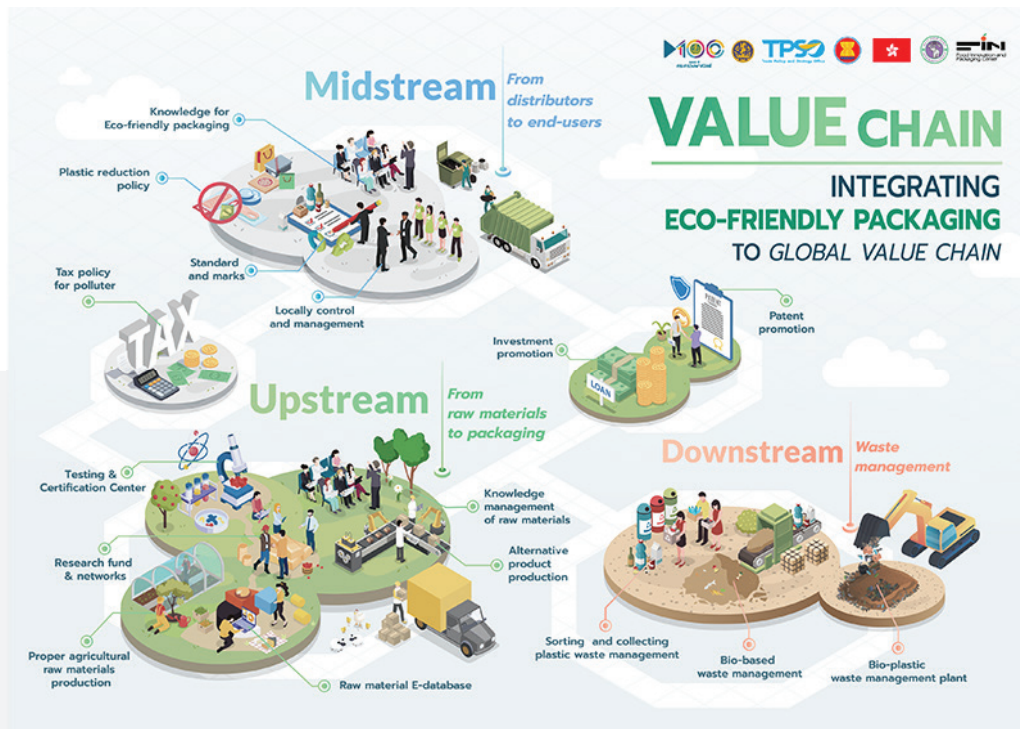


Agricultural Waste Research Award

Faculty of Science, Chiang Mai University sent a doctoral student to present a research on agricultural waste at the Young Scientist Seminar (18th YSS, 2021) in Japan and received two awards, namely Excellent Presenter in the Poster Session (Microbiology) Award of the Sakura Science Program 2021 and Best Speaker Award in Young Scientist Seminar (18th YSS, 2021), Yamaguchi University.

This research aims at turning agricultural wastes, such as rice straw, corn husks, bamboo scraps and sugarcane leaves, into value-added products. There are a large amount of these wastes which accelerate carbon cycle. Thus, instead of burning them, the researcher suggested to add value to the biomass by using the agricultural wastes as the starting material for the production of mycelium-biocomposite material. The material is biodegradable, environmentally friendly, and can be further used in the production of structural materials, such as wall panels, roof, and aerated materials, the production of disposable everyday products, or plastic substitutes such as plant pots and agricultural product packaging. The research leads to sustainable management of agricultural wastes promoting the Sustainable Development Goals; SDGs and holistic economic development based on Bio-Circular-Green Economy: BCG Economy.

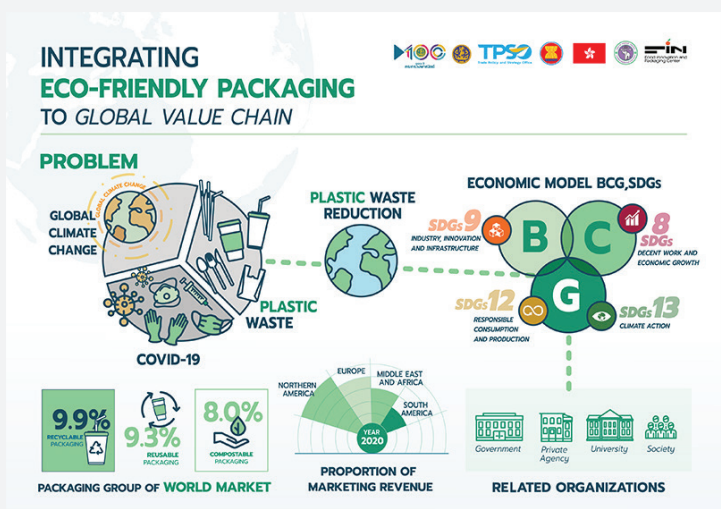
Source: <https://www.cmu.ac.th/th/article/25a1bc24-93a8-4e2e-8f88-27189d9bd0cc>



Sustainable Eco-Friendly Packaging Development Model

Food and Packaging Innovation Center and Public Policy Institute, Chiang Mai University challenge and create opportunities for SMEs in Thailand and ASEAN to become a high-potential production base for eco-friendly packaging. There are a number of agricultural wastes and new researches and innovations in the region. Moreover, the market today also has a demand for natural and non-plastics materials, thus the sustainable eco-friendly packaging development model was suggested. This model can be integrated into the global value chain, divided into three levels as follows:

1. Upstream: from raw materials to packaging
2. Midstream: from distributors to end-users
3. Downstream: waste management



Source: <https://www.cmu.ac.th/th/article/94494f06-06a9-4a4e-8ba1-66c7be657219>

13 CLIMATE ACTION



Take Urgent Action to Tackle Climate Change and its Impact



“

Reduce Pollution, Turn Crisis into
an Opportunity to Sustainably
Solve the Problem





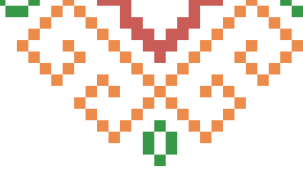
Innovation to Sustainably Solve Air Pollution Problems

Chiang Mai University has worked collaboratively with the public sector, the private sector, and community leaders to solve the true root cause of haze and smog pollution in the North. Therefore, the CMU Model project was established in Ping Khong, Chiang Dao District to create understanding and promote responsible utilization of natural resources so as not to affect biodiversity and ecosystem. In addition, it helps community to monitor smog pollution in a timely manner. The project is carried out under a participatory forest conservation management plan between communities, national parks and educational institutions to be a model area for sustainable solution for forest fire smog pollution. It also encourages community participation in solving air pollution problems with external perspectives, enabling them to understand

and gain insights into the problems of communities living adjacent to forests, especially economic problems.

The University, along with many sectors, have collaborated to create innovations to sustainably solve air pollution problems which are forest fire prevention and control with thermal imaging unmanned aerial vehicle system, clean air innovation, application for monitoring and warning air pollution, Air Quality Index, dust measuring device (Dustboy), Thai Air Quality application, CMAQH application and website, PM2.5 particle filtering face mask, and positive pressure face mask (Masqurax@CMU). All these innovations were created to eradicate the “smog season” from Thailand, especially the North. It is also a hope for the future in sustainably solving the problem of smog pollution.

Source: <https://sdgs.cmu.ac.th/th/ArticleDetail/f1d05c91-44b0-4c64-a5d9-2f87f300088b>



Transplanting Seedlings with Mushroom Spawn to Mitigate Climate Crisis

Faculty of Agriculture, Chiang Mai University, together with Maejo Wild Mushroom Research and Development Center and Samoeng Green Valley leaders have transplanted seedlings with wild mushroom spawn in the resin tree plantations and in the alley cropping agroforestry system to make the seedlings grow faster, according to climate crisis mitigation goals. This is in accordance with Sustainable Forest Management (SFM) guidelines. The project integrates sustainable utilization of biodiversity and terrestrial natural resources with the fight against climate change, operating under the principle of “small is beautiful.”

Source: https://www.agri.cmu.ac.th/2017/webs/info_activity_details/22584/5/2

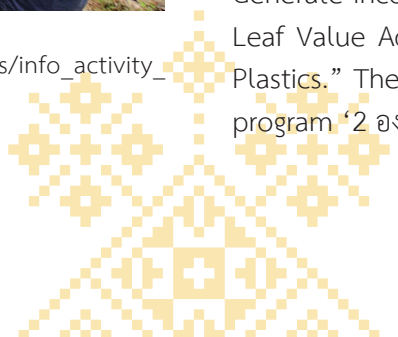


Documentary of Environmental Conservation in Chiang Mai

Faculty of Agriculture, Chiang Mai University, together with Forest and People Research Center (FP) and Maejo Wild Mushroom Research and Development Center made a documentary about the climate change crisis and environmental problems. The documentary represents two projects, “Wild Mushroom and Forestation: Generate Income and Reduce Smog” and “Gurjan Tree Leaf Value Adding to Reduce Forest Fire and Replace Plastics.” The documentary was broadcast on Thai PBS program “2 องค์ (2 Ong-sa).”



Source: https://www.agri.cmu.ac.th/2017/webs/info_activity_details/22428/5/2



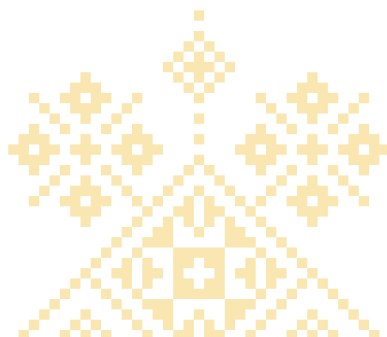


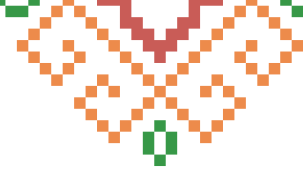
Conserve and Sustainably use the Oceans, Seas and Marine Resources For Sustainable Development.



“

Promoting sustainable marine and coastal ecosystem management





Workshop on Creating New Products from Marine Resources

College of Marine Studies and Management in collaboration with Chiang Mai University School of Lifelong Education have organized a short training course program under the topic “Creating New Products from Marine Resources 2021” at the laboratory of College of Marine Studies and Management. The workshop aims to inform participants of the process of adding value to food products, packaging development, shelf-life extension, and marketing strategies. The production of crispy fish chips from salmon scraps and freeze-dried salmon were introduced to promote new occupations for local people and provide knowledge in creating new products from marine resources for the community.



Source: <https://www.cmu.ac.th/th/article/d4cf120b-16ff-4f5d-b8dd-226304f5dfa7>



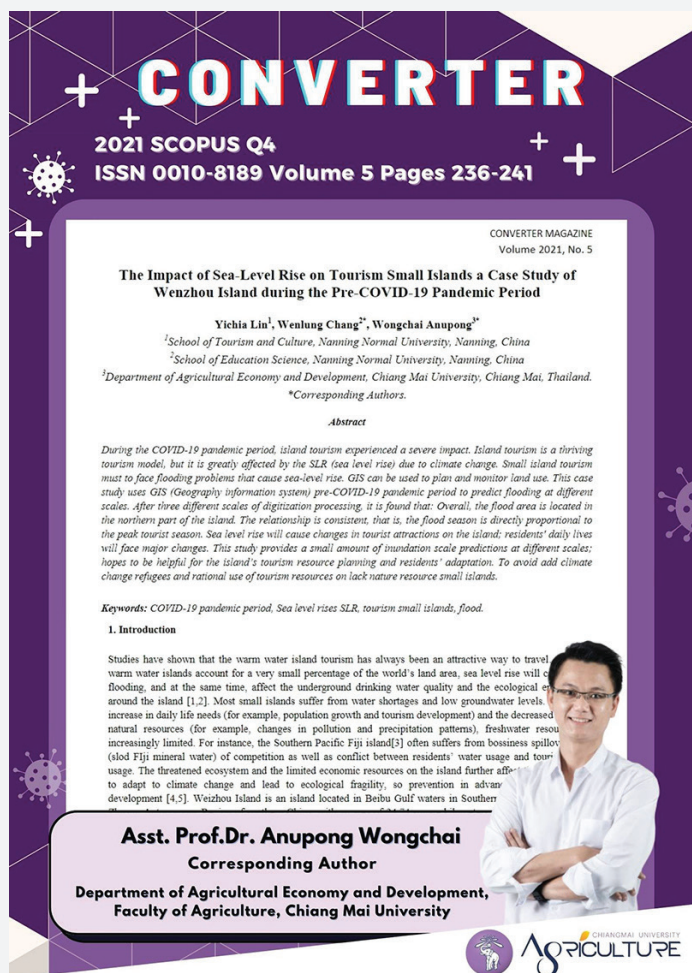
Conservation and Protection of Dugongs in Thailand

Faculty of Veterinary Medicine, Chiang Mai University together with Phuket Marine Biological Center, Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment have conducted researches on dugongs. This collaboration examined sexes of dugongs, whales and dolphins using molecular biology techniques. Sex determination of dugongs from their skeletons is useful for collecting marine mammal data, predicting dugongs' age by measuring the length of telomeres, and studying on the genetic diversity of dugongs in Thailand and around the world. The studies have shown that the dugong population in Thailand is genetically different from other dugongs in the world.

These research findings have solved some of the mysteries of dugongs through veterinary biology, providing information that is absolutely necessary for further analysis and legislation to protect dugongs in the coasts of Thailand.

Source: <https://sdgs.cmu.ac.th/th/ArticleDetail/7a548483-ee93-4b48-91e8-70ff7532f500>





Research Cooperation on the Impact of Sea-Level Rise on Tourism

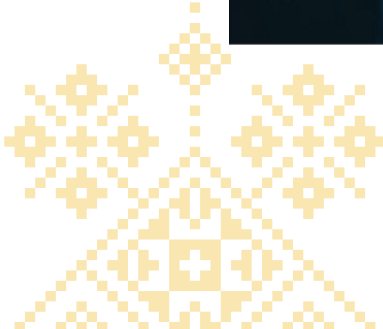
Assistant Professor Dr. Anupong Wongchai from Faculty of Agriculture, Chiang Mai University was a corresponding author on “the Impact of Sea-Level Rise on Tourism Small Islands a Case Study of Wenzhou Island during the Pre-COVID19 Pandemic Period” published in the CONVERTER journal. The researchers examined the rise of sea level in Wenzhou Island, the People’s Republic of China that affects tourism by using Geographic Information System. The results of the study are useful for planning the Island’s tourism resources and the adaptation of residents to prevent natural resource shortages.

Source: <https://www.cmu.ac.th/th/article/882812bf-5de7-4969-ad57-2f6a789f3128>

A Short Course on the Awareness of Venomous Jellyfish

School of Lifelong Education, Chiang Mai University creates a short course on the “awareness of venomous jellyfish, prevention, and first aid” to prevent injuries and deaths from venomous jellyfish. The purpose of this course is to provide coastal accommodation entrepreneurs, medical personnel and the public with the knowledge to prevent and be aware of being injured and dead from deadly jellyfish, as well as being able to provide first aid to the injured from jellyfish venom.

Source: <https://mooc.cmu.ac.th/th/course/2F21912A-4695-49C9-83A2-F465AE710C02>



15 LIFE
ON LAND

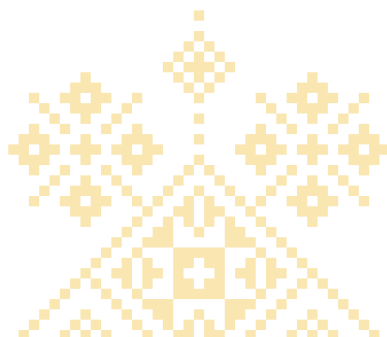


Promote Sustainable use of Terrestrial Ecosystems



“

Create the Ideal Model of an
Ecosystem to Restore Biodiversity



โครงการติดตามดูแลสิ่งแวดล้อม

อ่างแก้ว มช.



Ecosystem Conservation “Ang Kaew Reservoir CMU”

“Ang Kaew Reservoir CMU” is the recreational area in Chiang Mai University and is the type III grade water resource which is used for consumption after being through the water treatment. Nowadays, “Ang Kaew Reservoir CMU” is facing the growing number of algae turning the water into green and turning its scenery unpleasant. The cause of the increasing number of algae is the over-enrichment of water by nutrients including Nitrogen and Phosphorus resulted from getting more water from natural resources to the reservoir. This causes eutrophication which will possibly kill the fish from the

shortage of oxygen. Besides, the growing number of black crowned night herons in migration during the rainy season to lay eggs and to feed their newborn babies is also one of the main factors in the increase of nutrients in the water especially when the birds excrete their droppings into the water. At the same time, the populations of black crowned night herons reveal the ecological abundance, and they also become the invaluable natural learning source. Chiang Mai University which sees the importance of and intends to sustain the ecosystem and biodiversity, therefore, has been finding the solution in this issue without affecting the water quality along with the flock of birds. With the existence of over thousand black crowned night herons in the university, it is the measure revealing the high environmental quality physically and morally.

As a result, Chiang Mai University has managed to improve the water quality by using alum coagulation to remove the algae in the water. Furthermore, the university has utilized the explicit knowledge from the research with the society or any other area in Chiang Mai affected by algae growth, resulting in the environmental revival and the improvement of the northern local life.

Source: https://erdi.cmu.ac.th/?page_id=3902



“Forest Restoration Technology” Online Course

Chiang Mai University’s Forest Restoration Research Unit (FORRU) launched the online course on “Forest Restoration Technology.” It is a short-term training course for competency certification in which all groups of learners will learn about the concepts and practices of tropical forest restoration, the use of framework-species method, the process of restoring forests according to each area, and knowledge of the use of technology to restore forests. This course provides knowledge on forest ecology, forest restoration, forest environment survey, and the collection of phenotype data, plant specimens and seeds, etc.

Source: <https://www.cmu.ac.th/th/article/5cb5fba1-ef6c-4540-ab45-82bb88b6cce5>



4 Rai (6,400 m²) Forest Restoration Project at Pong Yaeng Nai, Chiang Mai

Forest Restoration Research Unit (FORRU), Faculty of Science, and volunteers participated in the 3rd post-planting care activity by weeding and fertilizing 1,350 seedlings in an area of 4 rai under the “Pong Yaeng Trail Project #4: 4 Rai Forest Restoration at Pong Yaeng Nai.” The participants learned how to restore the forest by using framework-species method through hands-on practice, leading to the restoration and conservation of forest at Doi Suthep-Pui National Park area, Ban Pong Yaeng Nai, Mae Rim District, Chiang Mai.

Source: <https://www.facebook.com/forestrestorationresearchunit/posts/pfbid02HA9UAHtBSW4QthmJNQeWth4Fep6Z2bsrghQY4uMhb9H9nnESPH8quVjHor7RdF7L>



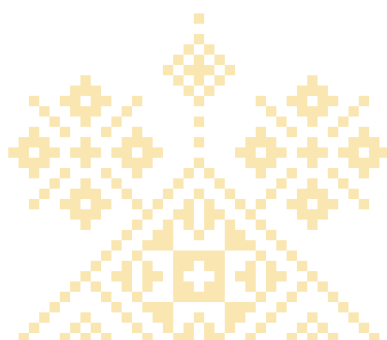


Promote Peaceful and Inclusive Societies for Sustainable Development, Provide Access to Justice for all and Build Effective, Accountable and Inclusive Institutions at all Levels



“

Promote Morality, Reduce Inequality, Develop Transparent Institutions, and Combat all Forms of Corruption and Bribery



ประกาศมหาวิทยาลัยเชียงใหม่
เรื่อง นโยบายไม่รับของขวัญและของกำนัลทุกชนิดจากการปฏิบัติหน้าที่ในทุกเทศกาลและทุกโอกาส
(No Gift Policy)

มหาวิทยาลัยเชียงใหม่ กำหนดนโยบายคุณธรรมและความโปร่งใสในการดำเนินงานของมหาวิทยาลัยเพื่อให้ผู้บริหาร ข้าราชการ พนักงานมหาวิทยาลัย และผู้ปฏิบัติงานได้ยึดถือเป็นแนวปฏิบัติ เป็นไปตามนโยบายรัฐบาลในการส่งเสริมการบริหารราชการแผ่นดินที่มีธรรมาภิบาลป้องกันการทุจริตและประพฤติมิชอบ สอดคล้องกับแผนแม่บทภายใต้ยุทธศาสตร์ชาติประเด็นการต่อต้านการทุจริตและประพฤติมิชอบ ของประเทศ ประกาศมหาวิทยาลัยเชียงใหม่ เรื่อง การให้หรือรับของขวัญหรือประโยชน์อื่นใด ลงประกาศ ณ วันที่ ๒๒ ธันวาคม ๒๕๖๓ และเป็นไปตามนโยบายของมหาวิทยาลัยในการดำเนินโครงการประเมิน

คุณธรรมและความโปร่งใสในการดำเนินงานของส่วนงาน มหาวิทยาลัยเชียงใหม่ (CMU-ITA) ในการเสริมสร้าง มาตรฐานด้านคุณธรรม จริยธรรม ซื่อสัตย์ สุจริต และความโปร่งใสในการปฏิบัติงานตลอดจนเสริมสร้าง วัฒนธรรมองค์กรที่ดี เพื่อป้องกันการทุจริตและประพฤติมิชอบต่อการปฏิบัติหน้าที่ที่ทุกรูปแบบอย่างจริงจัง นั้น เพื่อให้การขับเคลื่อนนโยบายคุณธรรมและความโปร่งใสในการดำเนินงานของ

มหาวิทยาลัยเชียงใหม่ เป็นไปอย่างต่อเนื่องและโปร่งใส จึงประกาศนโยบายไม่รับของขวัญและของกำนัล

ทุกชนิดจากการปฏิบัติหน้าที่ในทุกเทศกาลและทุกโอกาส (No Gift Policy) ร่วมกันปลูกจิตสำนึกและ

สร้างวัฒนธรรมสุจริตในองค์กร โดยการนำของผู้บริหารสูงสุด ตลอดจนข้าราชการ พนักงานมหาวิทยาลัย และ

ผู้ปฏิบัติงานในมหาวิทยาลัยเชียงใหม่ทุกคน ขอประกาศเจตนารมณ์ “งดรับ งดให้ของขวัญและของกำนัลทุก

ชนิดจากการปฏิบัติหน้าที่ในทุกเทศกาลและทุกโอกาส (No Gift Policy)” เพื่อหลีกเลี่ยงการกระทำอันอาจมีผล

ต่อคุณพิริยหรือการตัดสินใจในการปฏิบัติหน้าที่ ซึ่งนำไปสู่การเลือกปฏิบัติ หรืออาจก่อให้เกิดผลประโยชน์

ทับซ้อน ตามแนวหาดดังนี้

๑. ผู้บริหาร ข้าราชการ พนักงานมหาวิทยาลัย และผู้ปฏิบัติงานในมหาวิทยาลัยเชียงใหม่

งดรับของขวัญและของกำนัลทุกชนิดจากการปฏิบัติหน้าที่ ในทุกเทศกาลและทุกโอกาส

๒. ผู้บริหาร ข้าราชการ พนักงานมหาวิทยาลัย และผู้ปฏิบัติงานในมหาวิทยาลัยเชียงใหม่

งดให้ของขวัญและของกำนัลทุกชนิดแก่บุคคลภายนอกผู้มาติดต่อ ในทุกเทศกาลและทุกโอกาส

๓. ผู้บริหาร ข้าราชการ พนักงานมหาวิทยาลัย และผู้ปฏิบัติงานในมหาวิทยาลัยเชียงใหม่

ต้องปฏิบัติหน้าที่อย่างถูกต้อง โปร่งใส เป็นธรรมและไม่เลือกปฏิบัติ ไม่แสวงหาเพื่อให้ได้มาซึ่งของขวัญ

ของกำนัล หรือผลประโยชน์ที่มิชอบด้วยกฎหมาย

๔. การแสดงความยินดี การแสดงความปรารถนาดี การแสดงการต้อนรับ หรือการแสดง

ความเสียใจในโอกาสต่าง ๆ ตามประเพณีนิยม ควรใช้วิธีการแสดงออกด้วยการลงนามในบัตรอวยพร

สนุดอวยพร บัตรแสดงความยินดี บัตรแสดงความเสียใจ แทนการให้ของขวัญหรือสิ่งของ

จึงประกาศมาเพื่อทราบโดยทั่วกันและถือปฏิบัติอย่างเคร่งครัด

ประกาศ ณ วันที่ ๒๘ เมษายน พ.ศ. ๒๕๖๔

(ศาสตราจารย์คลินิก นายแพทย์นิเวศน์ นันทจิต)

อธิการบดีมหาวิทยาลัยเชียงใหม่

สำเนาถูกต้อง
กิจการ
(นางสาวพิชชาพร สุนะ)

นักจัดการงานทั่วไป

No Gift Policy

Chiang Mai University has issued a policy of not accepting gifts of any kind on all festivals and occasions (No Gift Policy) to implement the policy of Integrity and Transparency of Chiang Mai University (CMU-ITA). This policy reinforces integrity, ethics, honesty and transparency at work, as well as fosters a good organizational culture to seriously prevent corruption and misconduct. The executives, government officials, and university personnel are required to strictly comply with the policy.

Source: <https://hr.oop.cmu.ac.th/data/files/news/newsfiles/110420220419.pdf>



A Study on the Period Poverty: the Case Study of Female Students in Chiang Mai

Faculty of Political Science, Faculty of Law Chiang Mai University and Faculty of Humanities and Social Sciences Chiang Mai Rajabhat University conducted a research on the inequalities in access to menstrual hygiene products among female students in Chiang Mai, which was funded by King Prajadbhipok's Institute. The purpose of this research is to examine the period poverty and all main relevant contexts, explore legal and policy frameworks for tackling period poverty, and study teenage female student inequalities in access to menstrual hygiene products in Chiang Mai. According to the research, it is found that although Thailand has laws relating to women's rights and equality between women and men, there is no parent law to enforce, promote, and encourage access to menstrual hygiene products. It is also shown that there is consistent evidence of socio-economic inequality in the conditions of menstrual hygiene management gaps as well as lack of access of female students to affordable menstrual hygiene products in Chiang Mai. Socio-economic constraints of the household and locality are major contributors to these inequalities.

Source: <https://www.kpi.ac.th/knowledge/research/data/1213>



Anti-Corruption Awards 2021

Chiang Mai University has been announced “Anti-Corruption Awards 2021” in “Outstanding Educational Institution for Anti-Corruption Promotion.” It is regarded as an educational institution that adheres to good governance principles, operating with transparency and

honesty, and supports in anti-corruption campaigns. The purpose of the awards is to honor individuals, organizations and media who comply with the principles of good governance and perform their duties with perseverance, honesty, and integrity.

Source: <https://www.cmu.ac.th/th/article/793c3311-f701-47c7-b281-6dc578ce175c>

17 PARTNERSHIPS FOR THE GOALS



Strengthen the means of implementation and revitalize the global partnership for sustainable development.

Memorandum of Understanding Signing Ceremony
between
Qingdao University, P.R. China and Chiang Mai University, Thailand
December 27, 2021



Memorandum of Understanding Signing Ceremony
between
Chiang Mai University and Sichuan Tourism University
5 August 2021



Chiang Mai University

Sichuan Tourism University

MOU Signing Ceremony
between
Chiang Mai University and Taisei (Thailand) Co., Ltd.
August 6, 2021

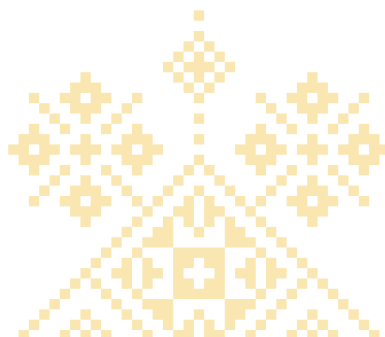


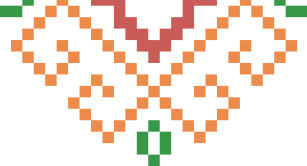
Trilateral Symposium on SDGs
CMU-KU-NCYU



“

Enhance Cooperative Integration
to Elevate to the International Level

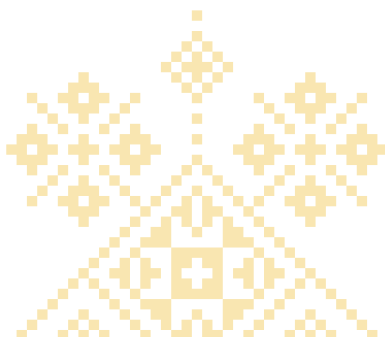
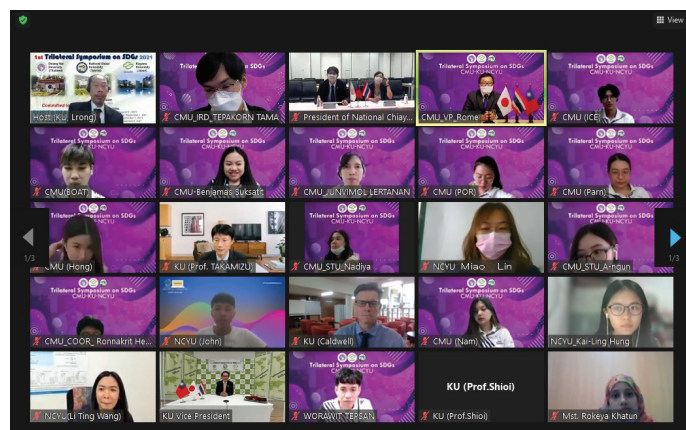


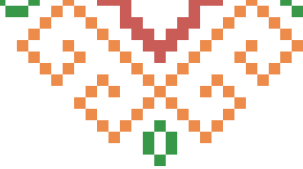


“Trilateral Symposium on SDGs: CMU-KU-NCYU”

Chiang Mai University, Kagawa University, and National Chiayi University collaborated to organize an international academic conference “Trilateral Symposium on SDGs: CMU-KU-NCYU” under five topics, including Food Session, Health Session, Society Session, Technology Session, and Student Session. It is an exchange of learning experiences between students from the three institutions, and the presentation of topics related to the SDGs. This conference will lead to effective partnerships and joint research projects for sustainable development.

Source: <https://ird.oou.cmu.ac.th/th/sdgs-2021-cmu-ku-ncyu/>





CMU Joins Forces with Microsoft to Launch “Microsoft Learn for Educators”

Chiang Mai University and Microsoft (Thailand) have signed an MOU for Academic Cooperation to launch Microsoft Learn for Educators. The project aims to provide teachers with access to Microsoft courses and teaching materials. Moreover, it intends to encourage students and personnel to get Microsoft certifications so that they can improve their digital literacy. This is in line with the national policy on digital development for economy and society.

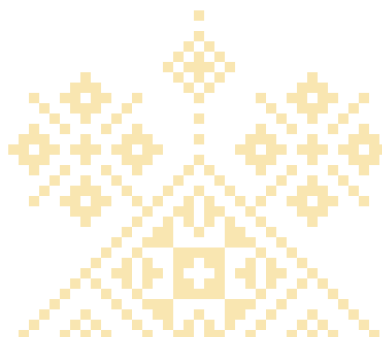
Source: <https://www.cmu.ac.th/th/article/49bc4924-e6b1-4a54-b760-f2978d8e4c79>

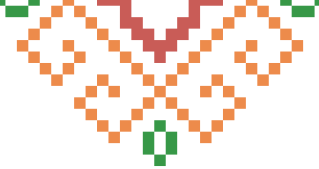


Panel Discussion on PM2.5: Thailand Guiding Policy

Faculty of Law, Faculty of Political Science, Faculty of Humanities Chiang Mai University and Academic Center for Air Pollution in Northern Thailand organized a panel discussion on “PM2.5: Thailand Guiding Policy,” together with Secretariat of the Senate, Chiang Mai Breathe Council, the Joint Standing Committee and Sustainable Development Foundation. The Academic Center for Air Pollution and other departments studied air pollution phenomena while developing instruments and technologies for climate monitoring to create database system and a systematic approach to air pollution problem solving. This academic panel discussion was held to monitor and evaluate the system for solving PM2.5 problem in the North. It was concluded that new policies regarding smog management should be formulated. There is also a need to talk about the problem in the ASEAN Community Forum. In addition, there is an urgent need to push for legislation to ensure “right to clean air” for the people.

Source: <https://www.cmu.ac.th/th/article/756f4af2-48fd-4016-8968-000cbf98d343>



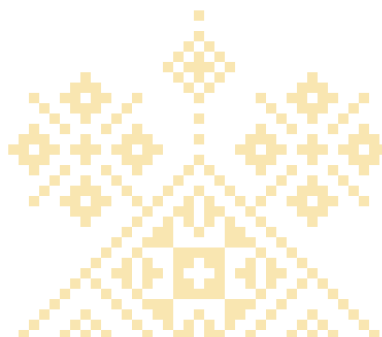


Cross-Border Trade through R3A and China-Pan Railway Network

College of Arts, Media and Technology, Chiang Mai University launched a project, “Boosting Cross-Border Trade Opportunities in MLC SEZs through R3A and China-Pan Asia Railway Network” which was funded by Mekong-Lancang Cooperation and Ministry of Commerce with a budget of 452,600 USD. The goal is to make Chiang Khong a center of Cross Border E-Commerce (CBEC) for exporting Thai products through R3A route connecting Kunming

Free Trade Zone. The project relies on China’s railway network that distributes products within China and connects Europe. It is estimated to take a total of three years (2021-2023) to complete. The Mekong-Lancang Cooperation consists of six member countries: Cambodia, Laos, Myanmar, Vietnam, Thailand, and China (Yunnan and Guangxi).

Source: <https://www.cmu.ac.th/th/article/0210bf9c-f663-4ad7-bc52-531555f41ee5>





Chiang Mai University

A Leading University Committed to Social Responsibility
and Sustainable Development

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