



Walailak University

Sustainability Report

2020 – 2021

Base on ISCN - GULF Sustainable Campus Charter

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Walailak University, named after HRH Princess Chulabhorn Walailak, is a government university and also a comprehensive university offering progressive courses in the fields of social science, science and technology and health science. The university continually enhances its environment to become a residential university fully equipped with holistic infrastructures and facilities as well as spearheads the landscape management so that it fruitfully serves as an accessible learning source surrounded by the proper, green, clean and unpolluted environment as recognized under the concept of Green University.

In response to a dramatic change of the world over the past few years, Walailak University has evolved accordingly by preparing not only the physical development but also actively orienting the students toward the world's progressive changing rhythms. Additionally, Walailak University is determined to set a high standard for education and research in compliance with the changes, encourage innovation development, take a more active role as a center of academic services in the upper southern region and the country and be recognized as an educational center on an international level. Promoting the university to become the sustainable university for happiness in a principal mission as enshrined in the 5th Strategic Plan 2018 – 2037 Understanding in such concept has been consolidated through a number of activities including the development and renovation of the physical environment in a form of sustainable development for education, work and campus life. The Sustainable Development Goals (SDGs) proposed by the United Nations has been integrated into the policy. In 2019 – 2020, the university has initiated several projects concerning sustainability. On behalf of Walailak University, I would like to present the sustainable development report of 2019 – 2020 as a testament to our determination to be the sustainable university for happiness.

Prof.Dr. Sombat Thamrongthanyawong

President of WalaiLAK University



About Walailak University

March 29th, 2020 marked the 28 years since Walailak University was established. For over 28 years, we have facilitated many progressive steps of development and advancement in all relevant aspects. Two years ago, it became accelerating because of the global change. We, therefore, took this opportunity to call today “the Changing Age” of Walailak University.

The first change was to reform the teaching and learning methods. The One-way learning in the class (No interaction) was replaced with UKPSF (The UK Professional Standards Framework from The Advance Higher Education (AdvancyHE) to ensure the efficient learning of the students. This framework is aimed to strengthen the analytical and synthesis skills of the students. All lecturers (100%) at Walailak University have been trained on UKPSF framework in the variety of levels, ranging from Associate Fellow, Fellow, Senior Fellow, and Principal Fellow. By the end of 2019, 40% of the total lecturers received the certificates of accomplishment for the Fellow and the Senior Fellow levels. This has put Walailak University a great success as the only one institution that has achieved this in the country. All of these indicated Walailak University’s commitment on improving and reforming the teaching and learning methods. This was to ensure that all personnel is well equipped with the skills to teach the students to be critical thinking, analytical, synthesis, and creative.

The language institute was also established to revolutionize English learning. The students are required to select English language courses for 6 school semesters or 2 college years which in the past, they were required only for 3 semesters or 1 college year. This reformation will also apply with major courses of each student. To ensure that the students can actually apply their English in their daily life, all major courses will be taught in English at least for 50% of the classes. Within the period of 3 years, all departments will develop and increase the English instruction courses to reach the goal.

To produce the graduates in alignment with the need of the country, which is being efficient and proficient in profession, Walailak University has improved the cooperative education. In this new course, students are required to take the cooperative education for 8 months or 2 SEMESTERS instead of 4 months like in the past. When the staff take the graduates, they do not have to worry about the working skills. At Walailak University, we make sure that all graduates have the efficient knowledge and proficient skills in both academic and vocational.

In term of learning facilities, the new students starting in the year 2018 will get to study in the Smart Class Room and the modern lab (Digital LAB) in the health science courses and the science and technology course. Another facility that cannot be missed is the Sports Complex. We have improved and renovated the stadium to be modern and serving all students and university personnel. The health center of Walailak University to be finished in 2019 will be open for services in 2021 offering the 120 bed facility for the in-patients. It also is expected to accommodate 419 in the year 2022.

Another proud of Walailak University is “Walailak Garden”. It was developed on 255 rai of land with the reservoir area in 130 Rai while its 125 Rai made up of landscape. Today, all people living in Nakhon Si Thammarat province and nearby are visiting this garden. Those interested to visit Walailak Garden in a group, either from academic, government or other sectors can request a tour guide or join the Campus Tours offered by us. Aside from all the changes and improvements of Walailak University for over 28 years

Vision

To be an institution of good governance, to be a leading source of knowledge, the best in local, and the excellent in the global.

Aspiration

We aspire to explore, to search for, to preserve and to transfer the knowledge in order to generate and maintain our academic improvement and excellence. This aspiration aims to bring forth the citizens with knowledge and virtue for the never-ending benefits of the nation and mankind. We are strongly committed to building a graduate embedding the following qualifications.

1. To become an up-to-date citizen of national and global, that possesses the democratic ideology, great knowledge, and wide perspectives.
2. To be an academic or vocational expert with knowledge, capacity, and skills in the interested fields and can efficiently apply those in their profession.
3. To be a “Pundit” who have consciousness, morality, and work ethic.

Mission

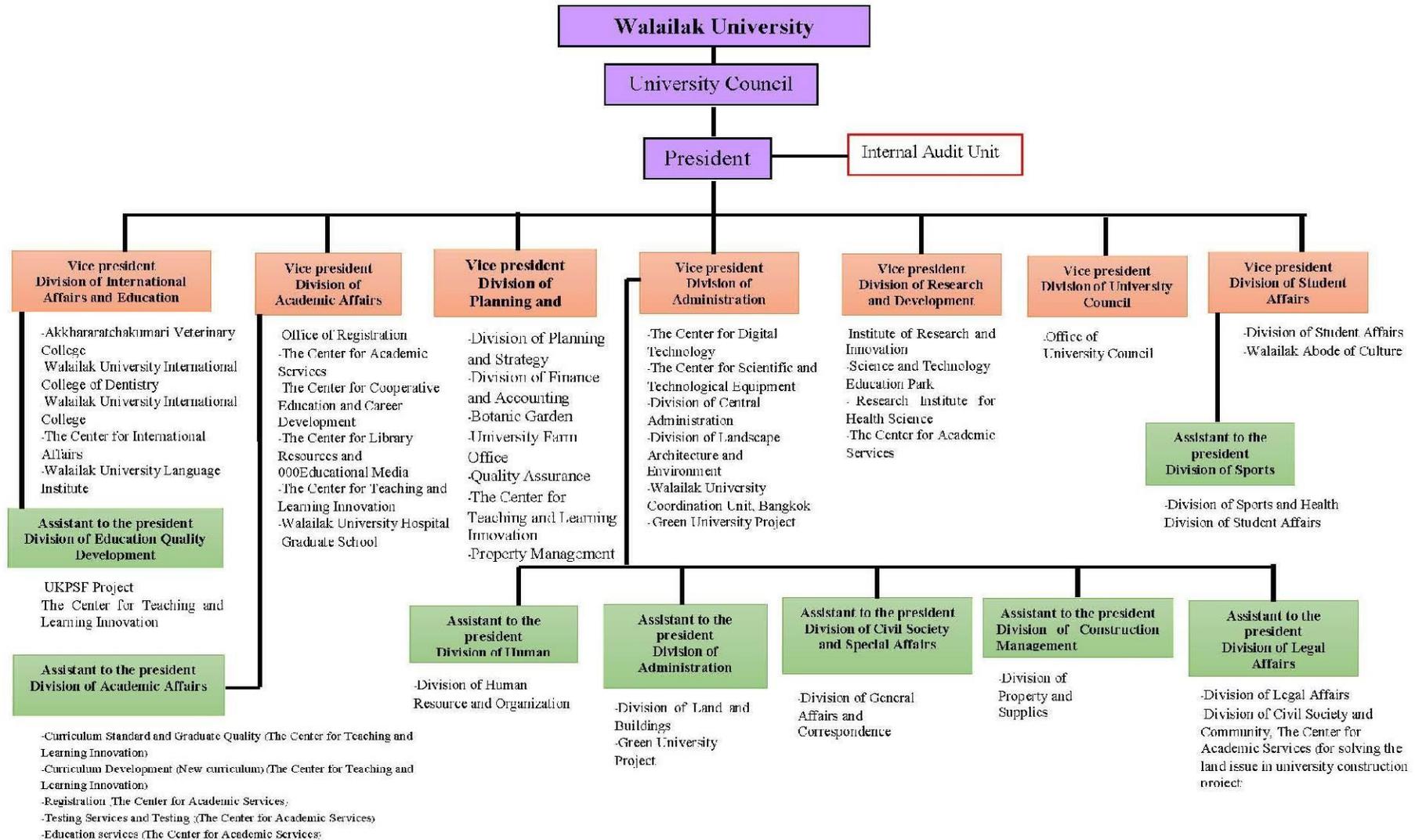
Walailak University has 4 main missions as the followings.

1. To produce and develop the labors to deliver the international standard and the needs in developing the national economy and society.
2. To study, explore, research, and develop the new knowledge that will create the quality graduates who are efficient to become self-reliant and also excellent in the international competition.
3. To provide the academic services to the public and private sectors including giving consultancy, suggestions for research, development, technology, and survey. We also offer training and developments to cultivate the innovation for economic and social development of the nation and region.
4. To conserve and restore the arts and culture heritage including customs, traditions, pure art and applied arts to set the example for the locals as a comprehensive learning institution.

For more information, please visit the university website: www.wu.ac.th



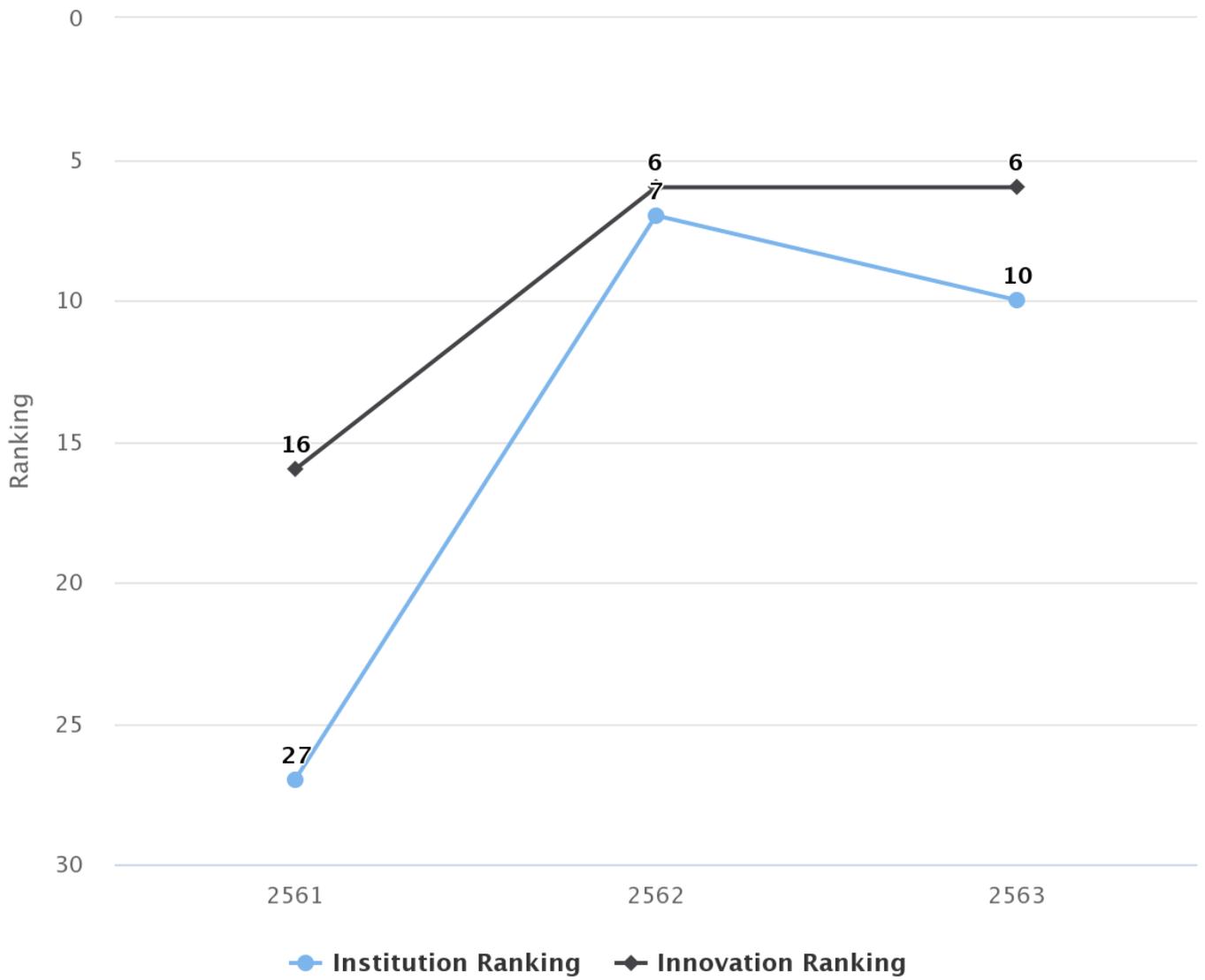
Organizational structure of Walailak University



World RANKINGS and Statistics

Important Statistic

Scimago Overall RANKINGS (Among Thai Universities)



Highcharts.com

Category	Institution Ranking	Innovation Ranking
2561	27	16
2562	7	6
2563	10	6

UKPSF Fellowships and Training

(100% of WU teaching staff have undergone either full UKPSF Certificate Program or internally organized Pre-UKPSF Course since the beginning of 2018) - (Updated on 2020-12-16)

🌟 UKPSF Fellowships and Training

(100% of WU teaching staff have undergone either full UKPSF Certificate Program or internally organized Pre-UKPSF Course since the beginning of 2018) - (Updated on 2020-12-16)

385

Fellow

56

Senior Fellow

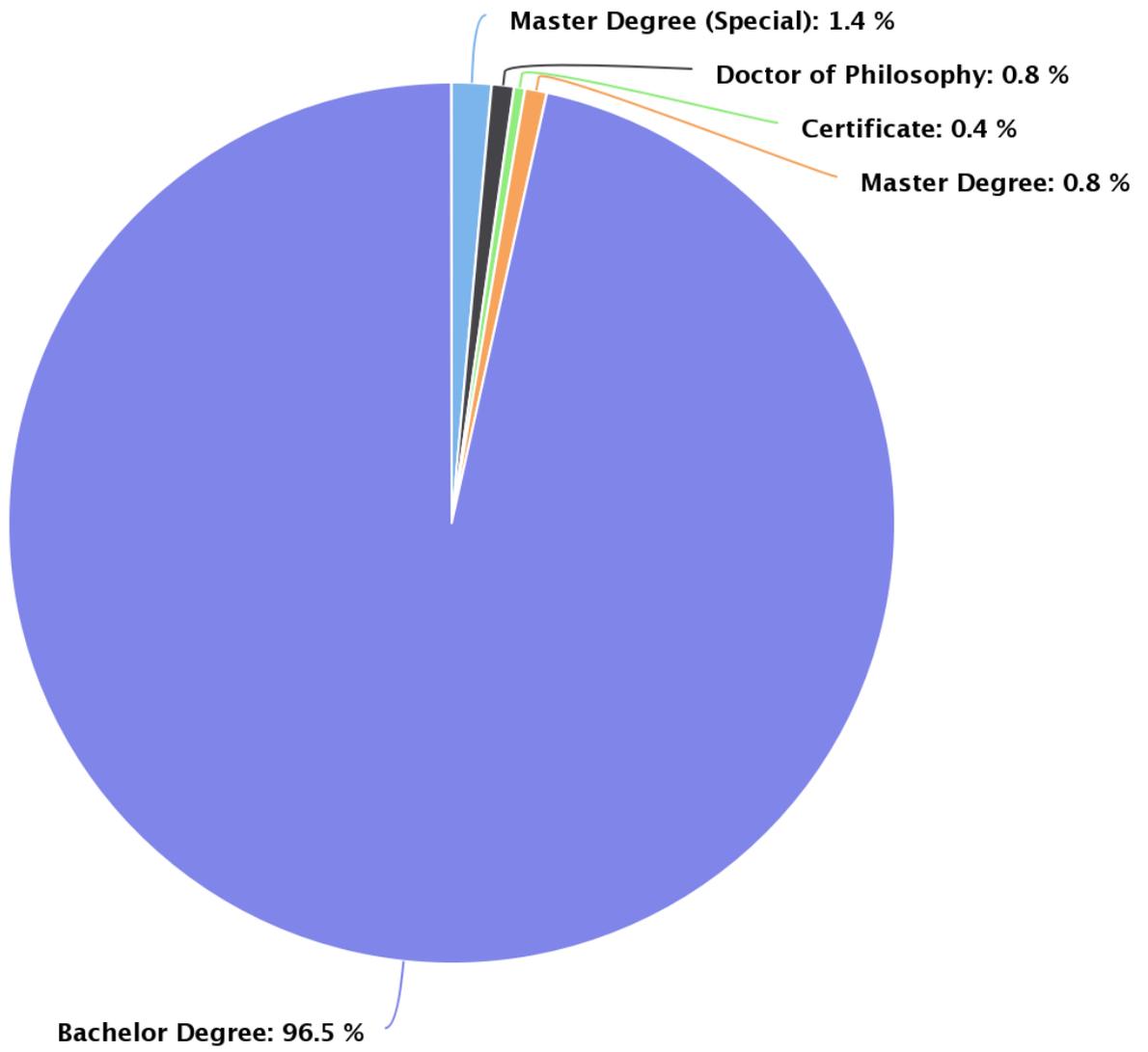
1

Principal Fellow

442

Total

Student Numbers

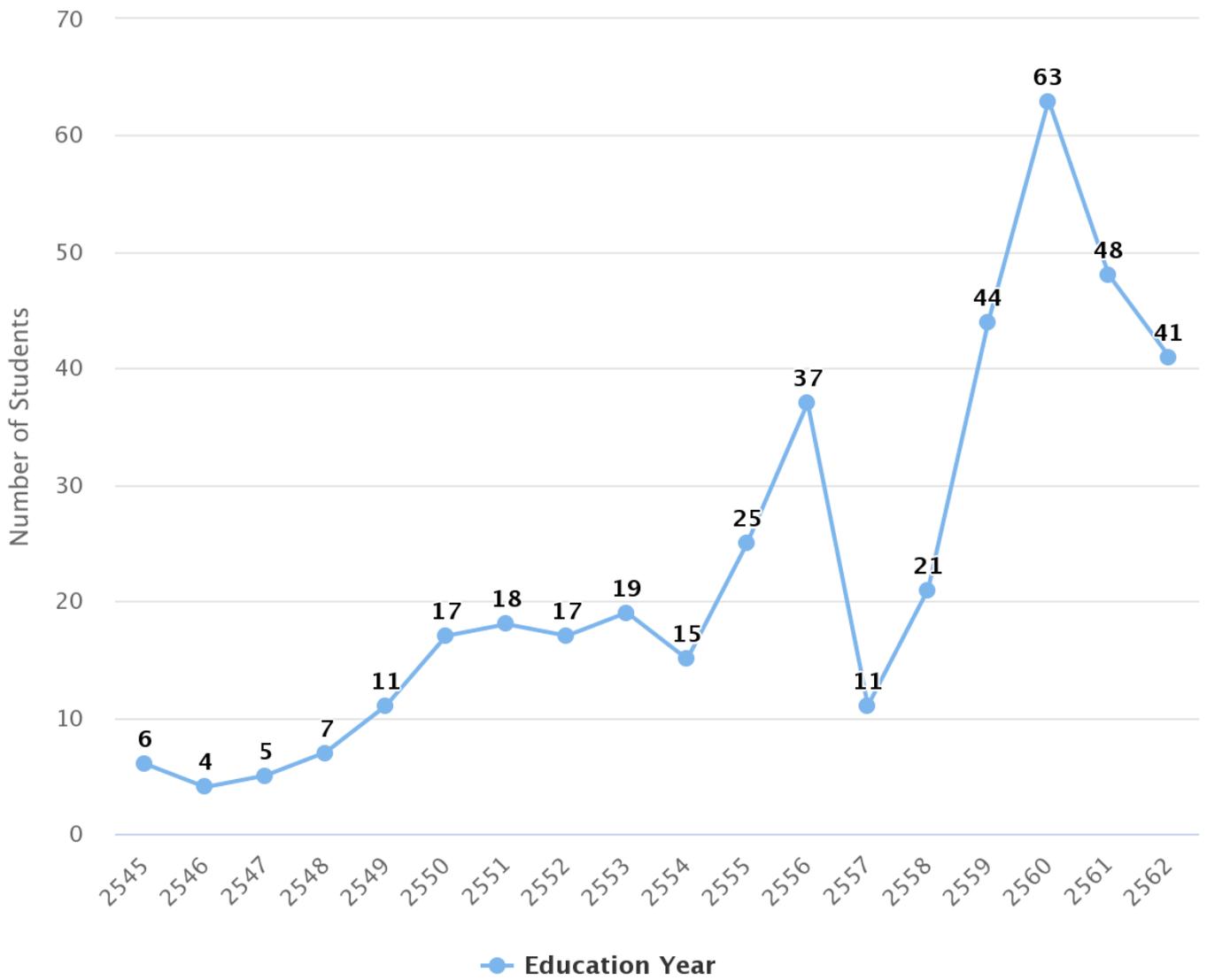


Highcharts.com

Chart

Category	Number of Students
Master Degree (Special)	136
Doctor of Philosophy	76
Certificate	37
Master Degree	76
Bachelor Degree	9075

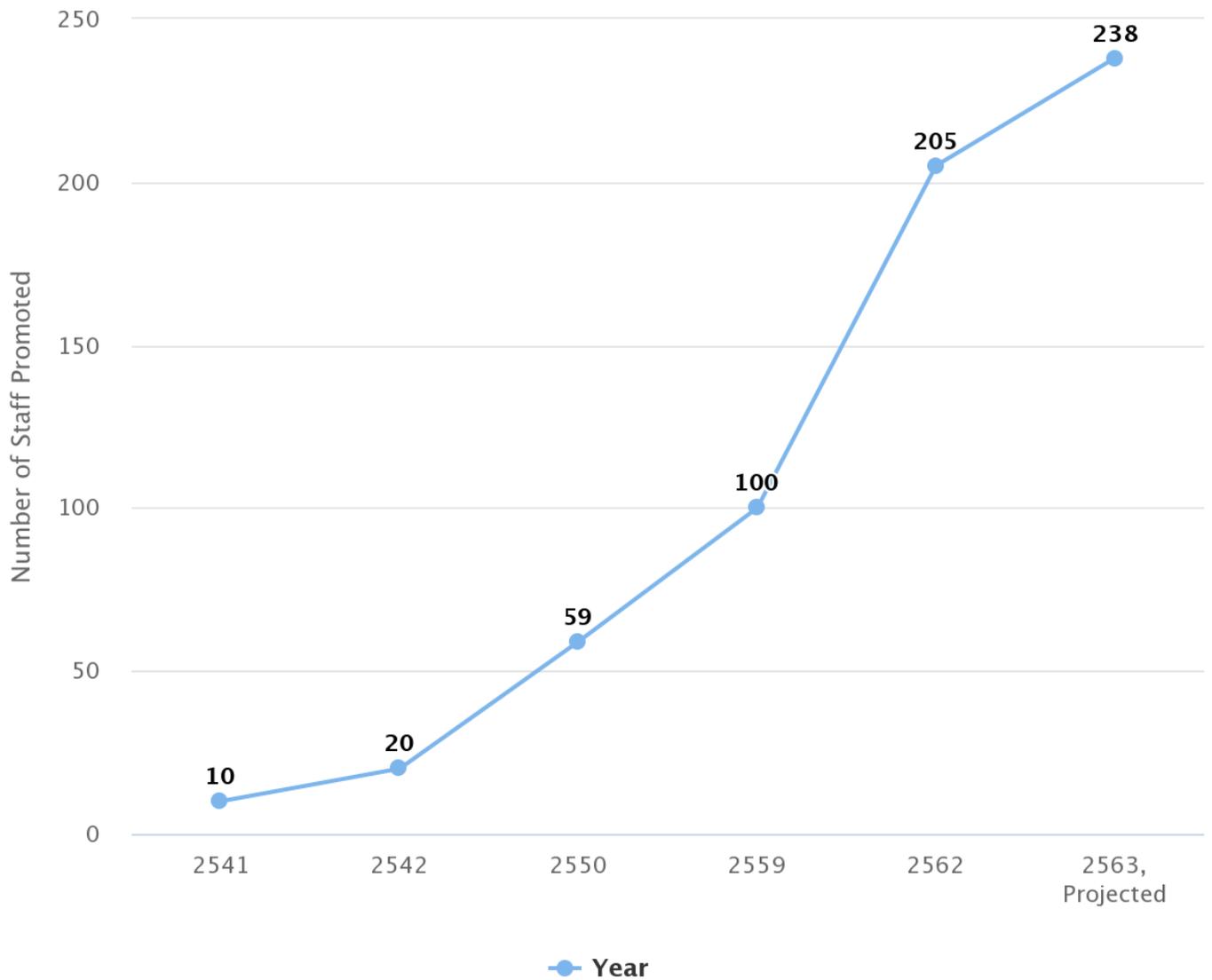
Student Numbers in Cooperative Education Overseas



Highcharts.com

Year	Education
2545	6
2546	4
2547	5
2548	7
2549	11
2550	17
2551	18
2552	17
2553	19
2554	15
2555	25
2556	37
2557	11
2558	21
2559	44
2560	63
2561	48
2562	41

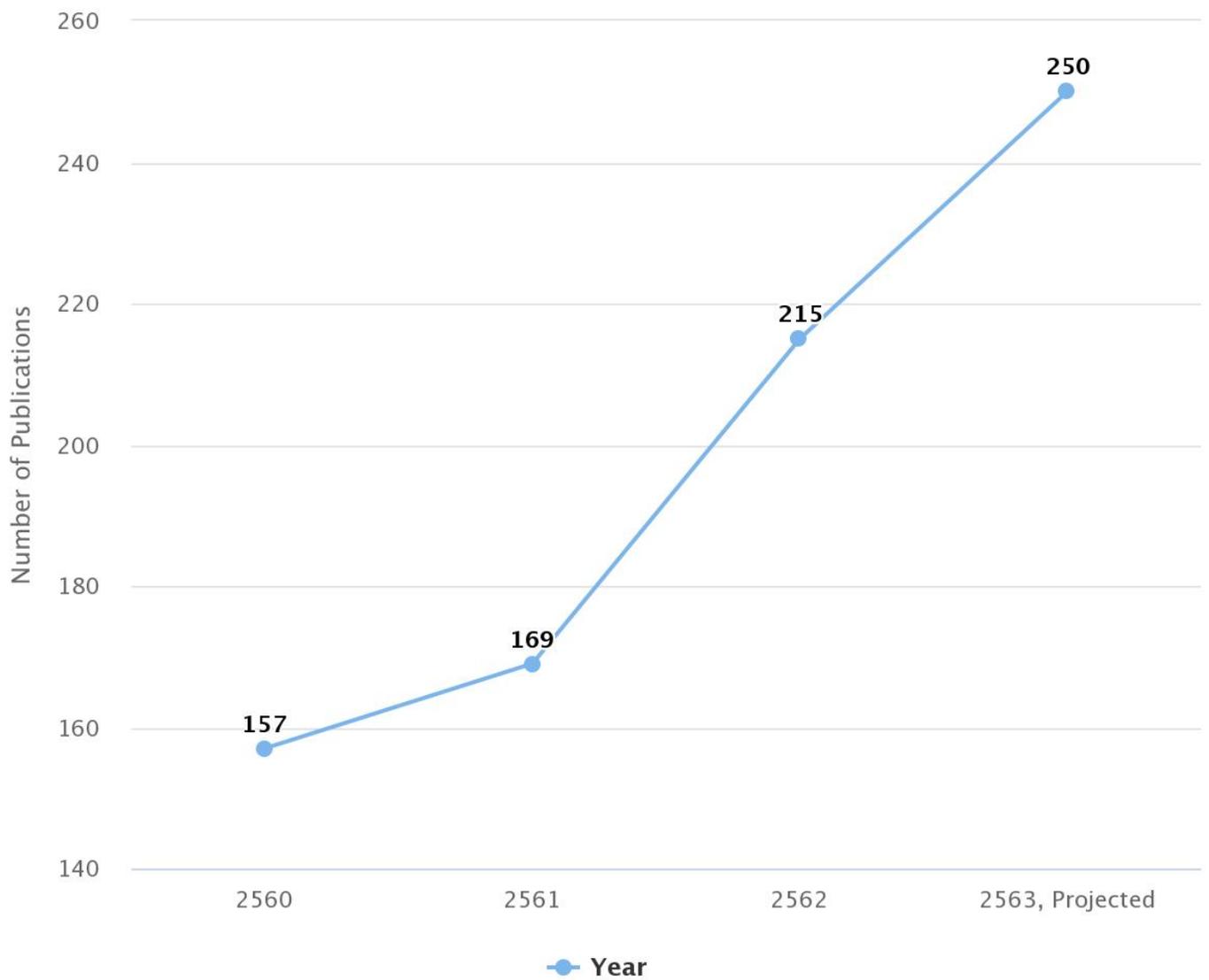
Staff More than Doubling Academic Ranks Between 2016-2020 (Assistant Professorships and Associate Professorships)



Highcharts.com

Year	Projected
2541	10
2542	20
2550	59
2559	100
2562	205
2563	238

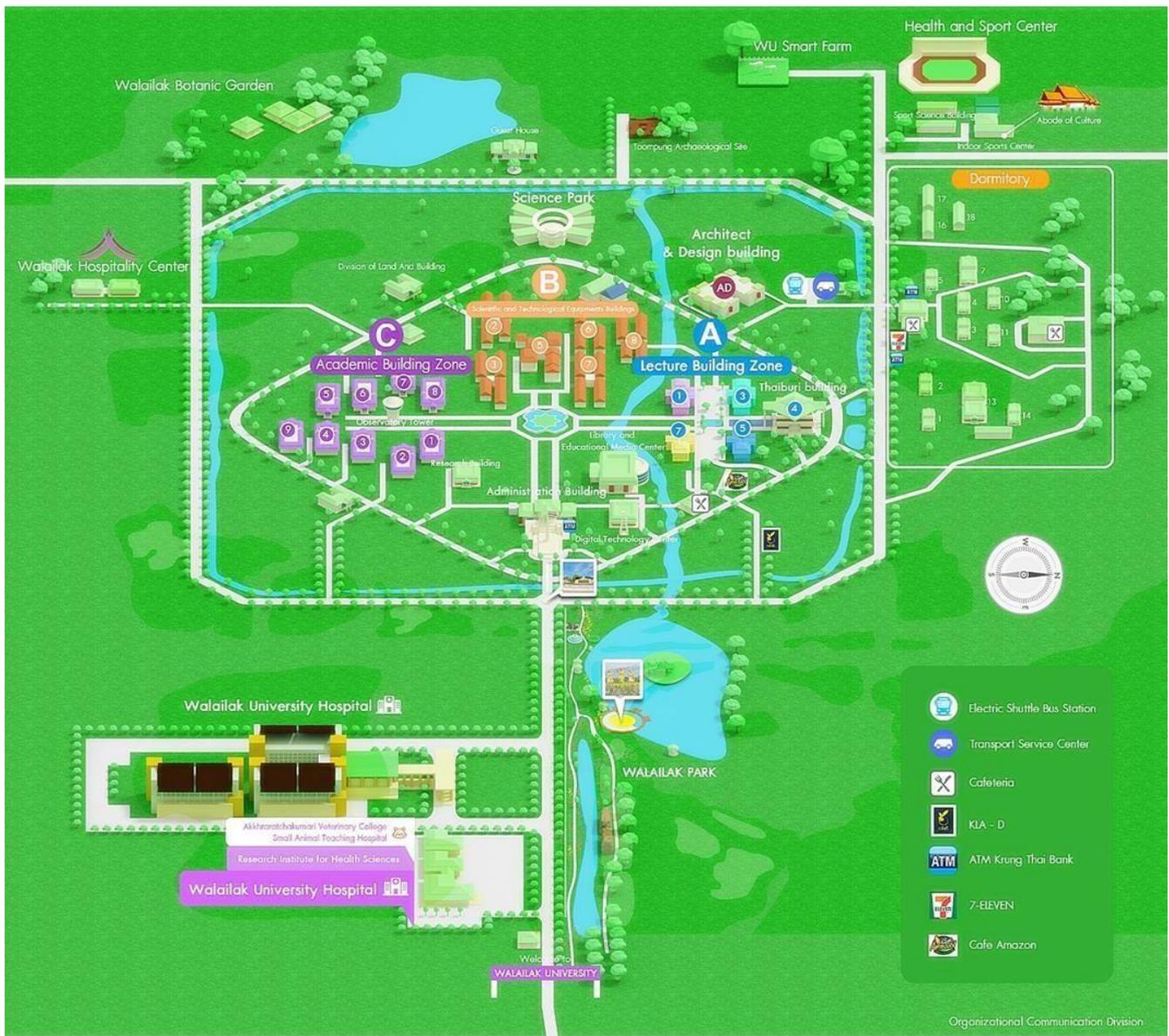
ISI-Indexed and Scopus-Indexed Publications



Highcharts.com

Year	Projected
2560	157
2561	169
2562	215
2563	250

Map Of Walailak University



C ACADEMIC BUILDINGS

- | | |
|--|---|
| <ul style="list-style-type: none"> C1 School of Science
School of Liberal Arts C2 School of Nursing
School of Public Health C3 School of Management
School of Informatics C4 School of Agricultural Technology
School of Engineering and Resources | <ul style="list-style-type: none"> C5 Walailak University Language Institute (wuli) C8 School of Allied Health Sciences
School of Political Science and Laws C9 School of Medicine
School of Pharmacy |
|--|---|

AD ARCHITECT & DESIGN BUILDING

- School of Architecture and Design
- College of Graduate Studies
- Walailak University International College



Green Walailak University Policies

Walailak University is determined to develop and promote environmental quality both in an academic and participation aspect and to cultivate conscience for good environment for students, staff, communities, societies and the country as a whole. The principal focus is on an environmental management in diverse dimensions including the resource, environmental technology, waste and pollution, human and society dimensions in order for the university to stand as a world class university treating environmental issues with priority and being accepted on the ASEAN and global community levels. To accomplish this mission, the Sufficiency Economy Philosophy principles and the Sustainable Development Goal as stipulated by the United Nations are applied as follows;

- 1 . Developing and creating a master plan dictating the use of land with priority if energy saving and environmental conservation.
- 2 Taking a revolutionary action to enforce decreased use of energy and extensive use of renewable/ alternative energy within the university
- 3 . Encouraging decreased use of water supply and effective water supply management within the university to ensure optimal benefits.
- 4 Supporting waste management, zero waste and water reuse by taking into consideration economic and social factors for the purpose of reducing waste and water reuse by endorsing the practice of reducing, reusing and recycling and also demand effective and sustainable pollution reduction within the university. Providing a transport service for environmental sustainability and use and provision of public transports, bicycles and walking paths within the university
- 5 . Endorsing every lecturer/ student/ staff – organized activity related to seeking effective solutions against the climate change issues caused by Green House Effects
- 6 Facilitating the university’s environmental education and research by integrating sustainability into all curriculums and advancement as a research center for sustainability innovations
- 7 . Supporting and facilitating cooperation on academic, management, development and creation of technology and innovation for environment between the university and other organizations both on a national and international level
- 8 Achieving the status of a proper model and holistic learning platforms of sustainability developed under collaboration of communities and stakeholders
- 9 Acknowledging that sustainable development of the university is not only the mission but also the responsibility of all.

Prof.Dr. Sombat Thamrongthanyawong
President of Walailak University





Green University of Sustainable Happiness, Walailak University

Walailak University is a comprehensive university offering courses in social science, science and technology and health science and continually advancing its environment to serve as a residential university fully equipped with holistic infrastructures and facilities. The university landscape has been organized to be a learning source in a good, green and non-polluted environment (Green University). The university operates under the policy of Green Walailak University driven by determination to continually proceed as specified in the Green Walailak University approach, regarded so highly that it is enshrined in the university's 20 year strategic plan (2018 - 2037) in the fifth strategic issue concerning developing an image of becoming a happy green university.

In compliance with the mission of supporting and facilitating environmental conservation and creating the environment constituting good health for students, several projects have raised awareness of the university not only for the communities but also surrounding communities. Parts of the university's success were represented by university evaluation awards such as the environment- friendly university ranked by UI Green Metric which was in compliance with UI Green Metric World ranking. To achieve the university's identifying image of a green university of sustainable staff in the aspects of infrastructure management, energy and climate change management, waste management, water supply management, transportation system management and environmental education and research, the WU Green University committee has been appointed to put to practice the policy and establish the sustainable university for happiness. The committee consists of administrators and academic experts from multiple faculties. Additionally, the WU Green University committee is in charge of coordinating all the sustainability projects in the university. The WU Green university committee appointment was designed in such manner to ensure a sustainable practice equally contributed by high ranked administrators to staff. The management is based on the integration between the university's academic and action workforces to develop the sustainable university for happiness. Walailak University joined SUN of Thailand committed to the ultimate goal of aligning Thai societies with the United Nations' sustainable development goals. For further

information on the sustainable university for happiness, please visit the university website <https://green.wu.ac.th/>.



The 1st Principle- effectiveness of sustainability of buildings and resource management in the university

The 1st principle: With respect for nature and societies being the priority, actions involving construction planning, renovation and implementation of any buildings in Walailak University are carefully considered based on their sustainability. Walailak University complies with the policy of creating and conserving the environment allowing our students, staff to study and work within the sustainable environment. To fully become the sustainable university for happiness as determined by the university policy, considerations about construction and renovation projects are virtually based on their sustainability attributes. The projects' details were subject to a scrutinizing analysis process conducted by the Green University Committee, the Design and Architecture committee assembling teams of architectures, engineers and designers of relevant expertise. At Walailak University, physical resource management plays a significant role. Therefore, coordination and conveniences of all the parties involved (service users, students, staff and outside units) are immensely taken into account.

Approaches to achieve the 1st principle

In 2020 - 2021, the university has been materializing the WU master plan entailing the green building design concept and actions as well as management within the university. Many projects have been initiated between 2020 - 2021 with a solid commitment to the university' s campus life quality improvement principles and sustainable effectiveness improvement of the buildings in the university. The university investigated all the buildings and natural tears and wears came into sight. Thus, over the past few years, several of the buildings have been renovated to provide safer and more effective teaching, learning and working environment. The buildings' air-conditioning systems, for instance, have been upgraded to for optimum effectiveness together with automatic classrooms possessing the capacities to switch the class's energy system to an on/off mode by itself, detect real-time energy use and display an overall data summary for future energy management. The university also acknowledges that a systematic data gathering is an indispensable part of success in sustainable development. On that regard, based on the approaches scheduled in 2020 - 2021

The systematic data gathering and analysis processes of the university' s actions including amounts of resources used (an energy resource) and amounts of pollution being released to the environment (hazardous waste) have been made the focus of advancement. Empowered by the accurate and conclusive information, the university can practically and sustainably utilize the data for development measurement, appropriate goal setting as well as future creativity contemplation.

Initiatives and Outcomes of the 1st Principle in Fiscal Years 2020 - 2021

Topics	Goals and initiatives		Outcomes (fiscal year)	
	Objectives and goals	Important initiatives	Year 2019 - 2020	Year 2020 - 2021
1.Resource usage and management				
1.1 Use of electricity	Providing basic information on use of electricity		13,590,721.46 kWh/year	11,595,049.31 kWh/year
1.2 Use of water supply	Providing basic information on use of water supply		1,763,395 m ³ /year	832,226 m ³ /year
1.3 Costs of energy and water supply and the amount saved			<p>The total electricity costs \$1,910,870.34 (59,796,833.44 THB)</p> <p>The university can produce tap water from the raw water source within the university itself.</p> <p>Makes it possible to save costs \$430,650.88 (14354035.3 THB)</p>	<p>The total electricity costs: \$1,493,853.27 (49,796,833.44 THB)</p> <p>The university can produce tap water from the raw water source within the university itself.</p> <p>Makes it possible to save costs \$203,245.42 (6,774,319.64 THB)</p>
1.4 Products / Total	Walailak University		A total of 6,268	A total of 2,493

amounts of supplies purchased	endorses a replacement for printed paper with electronic documents in an office.		reams saved, accounting for 279,857 THB/ Year	reams saved, accounting for 135,660 THB/ year
2. Campus Waste and Waste Management				
2.1 Waste and Recycling	To reduce amounts of waste on campus and achieve a goal of reducing all types of waste by 30% in five years	Endorsing the waste management program under the concept of “WU Zero Waste”	The total amounts of waste:6500 kilograms / day	The total amounts of waste: 4500 kilograms / day

<p>2.2 Paper and plastic use reduction program on campus</p>		<p>The university launched the plastic waste reduction campaign in 2019.</p> <p>1. Launching the campaign “Say No to Plastic” ,encouraging the students and staff to not receive plastic bags in the university market and requiring use of reusable shopping bags instead</p> <p>2. Launching the program “Say No to non-reusable plastics” rewarding the students and staff using reusable shopping bags and water cups with stamps which can later be exchanged for gifts. Up to 10 food and beverage stalls join this program.</p>	<p>Implementation of these two programs resulted in 164,764.reduction of plastic bags and 1,026 of plastic cups in 2020.</p>	<p>Walailak University is now able to reduce the use of paper and plastic by the following methods such as; bring your own shopping bag, stop buying bottled water, bring your own thermos to the coffee shop, choose cardboard over plastic bottles and bags, say no to straws and so many of these suggestions are to reduce your waste, which will in turn reduce your use of plastic trash bags.</p> <p>Walailak University launch the campaign to reduce plastic waste for</p>
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				<p>example, the campaign “Say no to plastic bag” ask the student and staff refuse plastic bag during shopping in the University’s market. All student and staff have to bring their own reusable bag for shopping. There are 10 foods and drink shop participate in the campaign. These two campaign can reduce plastic waste in the campus e.g. 7-11 shop can reduce using of plastic bag 10,374 bag in 2018, 154,390 in 2019, and 278,240 in 2020.</p>
		<p>3. Establishing the policy and IT systems propelling the Paperless System such as E-</p>	<p>Total amounts of printing papers saved: 1,246,500 sheets/year,</p>	<p>Total amounts of printing papers saved: 193,800 sheets/year,</p>

		office, E-service, E-form, E-signature for daily office tasks and E-learning 4.Introducing the Two-Side use of paper requiring both sides of paper be used for informal communication within organizations	Accounting for 4580 reams, amounting to 279,857 THB /year	Accounting for 2,642 reams, amounting to 135,660 THB /year
2.3 Organic Waste Management	The university carries out systematic organic waste management.	1.Making compost out of leaves, braches, mowed Manila grass from different campus gardens and using it in WU Park. The amounts of compost made are adequate for the park maintenance.	Because of the amount of 1.5 tons of compost annually made, Costs of fertilizer purchase can be saved more.	Because of the amount of 2.2 tons of compost annually made, Costs of fertilizer purchase can be saved more.
		2. All food waste from the university canteens is retrieved by stall owners to be fed to farm animals such as pigs and used to make compost.	The university succeeded in disposing of a daily proportion of canteen food waste without any being thrown away or released to the environment.	The university succeeded in disposing of a daily proportion of canteen food waste without any being thrown away or released

			<p>Also, a growth rate of pigs fed with food waste is compared with that of the pigs fed with industrial food to set a model of organic pig farming for farmers in nearby communities. At the final stage, dung from the pig farm is further utilized for a biogas production process.</p>	<p>to the environment. Also, a growth rate of pigs fed with food waste is compared with that of the pigs fed with industrial food to set a model of organic pig farming for farmers in nearby communities. At the final stage, dung from the pig farm is further utilized for a biogas production process.</p>
<p>2.4 Inorganic Waste Management</p>		<p>1.The university launched a wastewater treatment and hazardous, general and inorganic waste management systems. For inorganic waste, the process starts with separation at an originating source through use</p>		<p>The university introduced the recycling bank project aimed to buy recyclable waste at a university-designated price. The saleable includes hard paper, paper, glass, and aluminum and</p>

		of labeled waste cans and transferring it to the campus waste separation facility.		metal bottles. This project serves as a gathering center for later waste disposal.
3.Considering service users				
3.1 In-building Ventilation Quality				The university has renovated the Night Canteen and installed proper ventilation systems to ensure good airflow within some buildings as well as highly effective air- conditioning systems to keep the in- building environment comfortable. An office' s designated photocopy room has been introduced by the office renovation project to keep proper ventilation and increase workplace safety.
3.2 Cooperation among STAKEHOLDers on planning (Integrated designs)				In terms of physical resource management, the university has increased responsibility for design and construction on campus. The university promotes a participatory design in each design/ redevelopment project. This process extensively involves conducting users' needs analysis in order to develop a design proposal meeting needs of all the parties involved.
4. Building design				
4.1 Applying sustainable building construction standards to building exploration/construction and renovation.	To develop the proper environment for teaching, learning and working in compliance with the sustainability standards			Architects and engineers are commissioned to integrate the Green Building design principles into new building construction and renovation projects on campus. Building development is regulated by Energy Conservation Promotion Act B.E. 2535 and other rules and legislations.
4.2 Long-term building use and durability				In 2018, the university expresses determination to pursue sustainable building development by appointing The Green University Committee and Design and Construction Committee

		<p>to implement the sustainable development approaches in the university buildings. Details of each project are subject to thorough analysis and consideration of the committees from construction to maintenance stages specifically on the basis of sustainability. Additionally, the university has also appointed the Energy Conservation Committee to enforce the optimal use of energy through the Walailak University Energy Conservation Policy. To minimize long- term usage problems and durability, architects and engineers used durable and sustainable environment- friendly construction materials for the newly constructed and renovated buildings.</p>		
<p>4.3 Integrated landscape and building design</p>	<p>The building and landscape design approaches have been established to ensure optimal use of the university’s land. Between 2018 – 2021 , a huge number of big and small trees have been planted to increase green areas and the restitution for the unused land was conducted to be converted to the university’s green areas.</p>		<p>The total amount of the university land areas including forest areas and plants:66.45%</p>	<p>The total amount of the university land areas including forest areas and plants:68.13%</p>



ศูนย์อาหารช่อประดู่

CHO PRADU FOOD CENTER

WU SHOP

โปรซอฟ

โปรซอฟ AIS

โปรซอฟ

โปรซอฟ

คุ้มค่าที่สุด สำหรับ

โปรซอฟ

โปรซอฟ

โปรซอฟ

เปิดเต็ม

The 2nd principle: Walailak University's action plan drafting and goal setting The 2nd principle: To ensure the university's long-term development sustainability, the university sets an action plan and goals as well as environmental and social goals. Walailak University has evolved in harmony with educational needs and campus life quality of the students, staff and a huge leap of technological evolution. The four year period between 2016 -2020 has virtually been the transforming phase of the university while the university's planning conforms to the WU plan. Nevertheless, both internal and external changes which have occurred over the past few years significantly urge and in fact necessitate revision of physical development planning across the university. Therefore, the revision program of the WU master plan establishment entered into force in 2016 for the purpose of improving the new university master plan in accordance with the sustainable university for happiness policy.

Approaches to achieve the 2nd Principle

Management approaches for the 2nd principle remain in compliance with the university's plan targeting sustainable physical environment development and promotion of campus life quality as emphasized in the sustainable university for happiness policy. In general, the development strategies are as follows:

1. Review of the WU Master Plan

As a residential university with vast amounts of open land, the new building development planning is still committed to a design with optimally open space to extensively benefit from natural light replacing electricity use inside a building. Walailak Park, spanning over 100.79 acres, divided into 51.38 acres of water and 49.41 acres of land, was built to serve as a recreational space for the university staffs, lecturers, students and also members of Thasala community, Nakhon Sri Thammarat as well as visitors from across the country, together with campsites and museums representing the university's priority given to management of unused land.

2. WU Transportation Management

The main strategy in this regard is dedicated to Walailak University students and staff' s convenient transport for a daily commute and journey from one spot to another on campus. It is also aimed to reduce the number of personal fuel vehicles such as cars and motorcycles and to ultimately endorse the minimum-carbon emission policy. Various means of transport has thereby been upgraded since 2016. The staff shuttle bus service for the university staff evidences the abovementioned effort. Additionally, the electric shuttle bus system has been operating under the project "WU Electric Shuttle Buses" to ease the traveling within the university for both students and staff. Above all, the launch of this project is aimed to help reduce not only air pollution which is a leading cause of Global warming but also an accident rate. Additionally, it is in compliance with the Green University policy with E- Bus Tracking and the Walk- For- Health project intended to encourage the use of Covered Walk Way when traveling between buildings on campus. This is all to establish

a low-carbon emission community spirit within the university. In the near future, the university is making progress toward addition of bicycle lanes on campus.

3. Quality Health and Living Standard Improvement

The university makes it a mission to develop the sustainable environment which accommodates teaching & learning and working. In 2016- 2020, the university facility systems have been improved to achieve the ultimate goal of providing safe environment and good health. At present, a number of services are made available for the university students and staff. One popular example is the WU Sports Complex offering a wide variety of exercise choices and WU Park serving as a recreational space not only for WU students and staff but also the nearby communities. The facility inspires staff and students to actively engage in exercise for their health and well-being.

Initiatives and Outcomes of the 2th Principle in Fiscal years 2019 – 2020				
Top ic	Goal and initiative		Outcome (Fiscal year)	
Important topics	Objectives and goals	Important initiatives	Fiscal year 2019 - 2020	Fiscal year 2020 - 2021
1. The goal of managing the university's Green House Gas(GHG)				
1.1 Green House	To study GHG emission from	The university's	GHG emission	GHG emission
gas emission	activities on campus	GHG emission	in total:	in total: 8440.23
(GHG)		management was	11,977	
		started in fiscal	tCO2E/y	
		year 2016.		
		In the first		
		phase,		
		an evaluation of		
		GHG emission		
		from transport		
		on campus was		
		studied.		
		In fiscal years		
		2018 - 2021, the		
		scope of GHG		
		emission has		
		been expanded		
		to cover all		
		campus		
		activities.		
2. Review WU master plan				
2.1 all of the	To develop the master	WU master plan	-the total	-the total amount of
university's	plan	was drafted and	amount of the	the
land	meeting the needs of	then revised in	main campus's	main campus's land
	higher		amount of the	
	education's future		main campus's	:15,350,400 square

	directions	2016 which	land	meters
		covers the	:15,350,400	-forest areas: 24.45%
		master plan for	square meters	The total land area
		the areas within	-forest	covering all farming land
		and outside the	areas:24.45%	-
		educational		: 43.68 %
		areas. The		

		project consists of a master proposal and a fundamental structure diagram.	The total land area covering all farming land - : 42% The total land area for water absorption : 32.10%	The total land area for water absorption : 30.40 %
3. On-campus Transportation Management				
3.1 Fundamental Data investigation	To provide fundamental transport data which will facilitate the university's fundamental structure planning	The investigation project has annually been conducted since 2016.	The number of cars driven into the campus/day: 1,523 The number of motorcycles driven into the campus/year: 91	The number of cars driven into the campus/day: 824 The number of motorcycles driven into the campus/year: 650
3.2 Use of bicycles and Covered Walk Ways	To encourage use of alternative means of transport on campus	1. The health program/ the university encourages use of Covered Walk Ways as daily exercise for the	1. Bicycle lanes 2. the Covered Walk Way with metal roofs protecting users from sunlight and rain were	The average number of bicycles ridden into campus/day : 300

		staff and	constructed to	
		students	enable the	
		2. Pedestrian	students and	
		paths on campus	staff to travel on	
		are all connected	foot within the	
		and covered by	university	
		metal roofs		

		called (Cover Walk Way)		
3.3 MAKING an integrated plan for travelling	To decrease the number of personal fuel vehicles on campus	<p>1. The staff shuttle commute service is provided. The electric shuttle system has been operating since 2018, covering 5 connected routes across campus.</p> <p>2. The university targets to decrease an amount of carbon dioxide emission by 40% within 5 years.</p>	<p>The number of operating electric shuttle buses - 16 buses</p> <p>The number of bus users: 13 users</p> <p>The number of journeys made by the staff shuttle commute buses: 628 times/day</p>	<p>The number of operating electric shuttle buses - 20 buses</p> <p>The number of bus users: 20 users</p> <p>The number of journeys made by the staff shuttle commute buses: 628 times/day</p>
4. Food				

4.1 Food safety	To ensure the quality of food and beverage sold in the university canteens	The food safety program was commenced in 2007 by School of Public Health generally performing food contamination tests, conducting food safety activities and	Joining volunteer programs	Mandatory for all of the canteen food sellers
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		performing customers' satisfaction evaluation.		
5. Social condition within WU Community				
5.1 Access to Services and Facilities		<p>1. To provide students and staff with facilities including Walailak University Hospital, WU Sports Complex, dormitories, bank, convenience stores etc.</p> <p>2. To extend service hours of some facilities such as The Center for Library Resources and Educational Media and WU Sport Complex etc.</p>		<p>Walailak University Hospital provides a wide range of medical services for staff and public.</p> <p>The number of students and staff receiving medical consultation :11,943 persons</p>
5.3 Participatory Infrastructure and landscape development planning	The university has drafted a building development/renovation plan with high consideration of the environment agreeable to all stakeholders.	The Green University committee and Design and Construction committee has been appointed to discuss issues concerning the university planning and environment design together with all stakeholders.		
5.4 Work conditions, health and safety	The university provides safe work environment enabling good health and others unrelated to work	1. Walailak University aims to become a traffic accident-free university	1.The 100% Helmet project on campus 2.Forming the 5s committee in	<p>1. The 100% Helmet project on campus</p> <p>2. The 5S committee has been made a mandatory evaluation for every</p>

		within five years	charge of sanitary	department
		and is	and	3. The university allots
		determined to	environmental	the budget for promoting
		serve as a model	inspection in a	physical environment
		of a university	workplace	within a workplace
		with sustainable		

		<p>traffic accident – free campus. 2. The university staff are entitled to basic social welfare as legislated on the labor laws with additional benefits.</p>		
6. Land use and biodiversity				
6.1 Land and building use and biodiversity	The university adopts effective land use management to achieve optimal benefits.	The Green University committee and Design and Construction committee cooperate in establishing collaborative policies and development directions to sustain the area’s biodiversity upon any means of land use, building construction and renovation.		

NRCT

ศูนย์วิจัยและพัฒนาการป้องกันและจัดการศัตรูพืช

มาคารมมา

ชมชนบ้านในถ้ำ



The 3rd Principle – Walailak University’s integration of research and educational facilities

The 3rd Principle – this principle is intended to put the organization’s mission in compliance with sustainable development through research and educational facilities

Approaches to achieve the 3rd Principle

It is evident that the institution’s commitments and specific information sources is a key factor to achieve the future success of being a sustainable university. The university’s sustainable policy must be not only a Top-Down but also Down-Top approach. This premise demanded an establishment of the Green University Policy back in 2017.

The university conforms to the sustainable approaches in three aspects of sustainable development including the environmental, economic and social aspects by taking action in each one of these activity categories, namely 1) basic infrastructures and physical qualifications of the university 2) health and quality living standards 3) resource management 4) education and research and 5) administration and social participation. The university has applied the concept of Sufficiency Economy Philosophy (SEP) introduced by H.M.The Late King Bhumibol Adulyadej and The Sustainable Development Goals (SDGs) proposed by the United Nations (SDGs) to achieve the optimal approach for sustainable development. The Green University Committee and the Green University Project team were formed to sustainably ensure effective physical resource management and address issues concerning the policy implementation with the president and vice-president closely supervising any actions, activities and projects regarding sustainability within the university. Consistent evaluations and inspections within the university will also be performed by the Green University committee. Hence, as an educational institution, it is imperative that education and research addressing environmental issues strive as a crucial springboard for the university’s sustainability enhancement. In fiscal year 2018 – 2019, the university has administered different projects through existent bachelor degree curriculums and those higher as well as several research teams. A large number of documents were made to emphasize educational association of higher education which is highly beneficial for the university as well as to promote learning, innovation creation and significant breakthroughs.

Finally, in terms of academic services for a society, acting upon the university’s concept of providing academic services through social engagement, knowledge and potentials in various fields of expertise, namely health science, science and technology and social science, are applied to propel the communities in many aspects including the environmental, economic and social aspects which are sustainably environmentally friendly. All sectors collaborate in achieving the goals including community, academic, government and private sectors particularly within Thasala District under the name Thasala Model : Smart and smile city which is in absolute compliance with the vision of Walailak University “Gateway to Achievement”.

Initiatives and outcomes of the 3rd principle in (fiscal year) 2019 - 2020

Topics		Goals and initiatives		Outcome (fiscal year)	
		Objectives and goals	Important initiatives	Year 2019 - 2020	Year 2020 - 2021
	1. Integration				
1.1 Projects and activities integrating research and educational facilities		To raise awareness of sustainability problems among the university's staff and students	Many institutions including physical resource management, the research institute and research teams have started a number of research projects integrating research and educational facilities.	All research projects: 1. Energy saving within the university buildings 2. Evaluation of the Green building architectural design within the university 3. Exploration of the university and GHG emission	The number of events concerning environment and sustainability : 97
1.2 Sustainability-integrated curriculums		To increase knowledge on sustainability issues among students	The university treats the sustainability-integrated bachelor and higher degree curriculums	The number of sustainability-integrated courses 545 The total number of curriculums: 2,460	The number of sustainability-integrated courses: 545 The total number of

			with great significance		curriculums: 2,090
1.3 Curriculums or research related to sustainability			Research teams with a partial or intensive focus on sustainability	The university research teams consist of research focusing on science and technology, health science and social science.	
2. Integration with the society					
2.1 Programs, projects or activities associating the university with industrial, government or civil society sectors		To associate the university projects, activities and programs with industrial, government or civil society sectors.	A number of programs and projects have been developed under cooperation of industrial, government or civil society sectors	“ WU Social Engagement” operates across Nakhon Sri Thammarat and the upper southern region	
2.2 Student & community run programs and activities geared toward more sustainable actions			Each year, WU students from different faculties organize a large number of projects strengthening connection and providing		The number of student organizations focusing on environment and sustainability : 5

			services to communities		
3. Research and studies involving use of laboratories / IT and sustainability facilities					
3.1 Research and studies focusing on energy conservation in laboratories/IT facilities		To set the energy saving standards within buildings		An index of energy from buildings in the university	An index of energy from buildings in the university
3.2 Research and studies focusing on reduction of hazardous waste from research process and IT facilities				Conducting a pilot study	Systematically exploring safety and reducing research-derived hazardous waste
4. Commitments and resources for the university's sustainability					
4.1 Continuity of the sustainability policy applying to the entire organization integrating academics with problems		Walailak University is a world class university producing knowledge and innovations necessary for a constructive and sustainable transformation of Thai societies.		."Sustainable development" is one integral topic specified in the university's Strategic Plan 2017-2020	
4.2 Commitment to the principles and initiation of sustainability under cooperation with outside		To introduce sustainable development in education and the university's implementation through	Walailak University cooperates with other Thailand's world class universities to	1. UI Green Metric World university ranking 2. Sustainable University Network of Thailand (SUN Thailand)	

institutions and organizations		cooperation with outside organizations.	form Sustainability University Network Thailand (SUN Thailand) in 2020 to achieve the shared goal of establishing a sustainable development framework for education in Thailand		
4.3 Special resources and budget for sustainability of the university				Total research funds allotted to environment and sustainability research (average per annum over the last 3 year):: \$ 3,717,173.56 (113,745,510.93 THB))	Total research funds allotted to environment and sustainability research (average per annum over the last 3 year): \$ 2,541,179.27 (79,559,120.19 THB)

References

WU Green University

Division of Planning and Strategy

Center for International Affairs

Center for Innovative Learning and Teaching

The Center for Educational Services

The Center for Academic Services

The Center for Scientific and Technological Equipment

The Center for Digital Technology

Walailak Sport and Health Center

Division of Land and Building

Division of Landscape Architecture and Environment

Walailak Botanic Garden

Water treatment, Waste, Hazardous Waste and General Waste Management System Management

Walailak University Sustainability Report 2018 – 2019

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Asst.Prof.Dr. Pakorn Ditthakit
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Layout and Design: Mr. Thanaphipat Sampuntamas

Photos: Division of Corporate Communication

Base on: ISCN - GULF Sustainable Campus Charter

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- | | |
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| 8. Asst.Prof.Dr. Pakorn Ditthakit | Committee |
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| 12. Mr. Khajornsak Phetcharanant | Committee and assistant secretary |
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| 4. Mr. Suthira Thongkao | Subcommittee |
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