

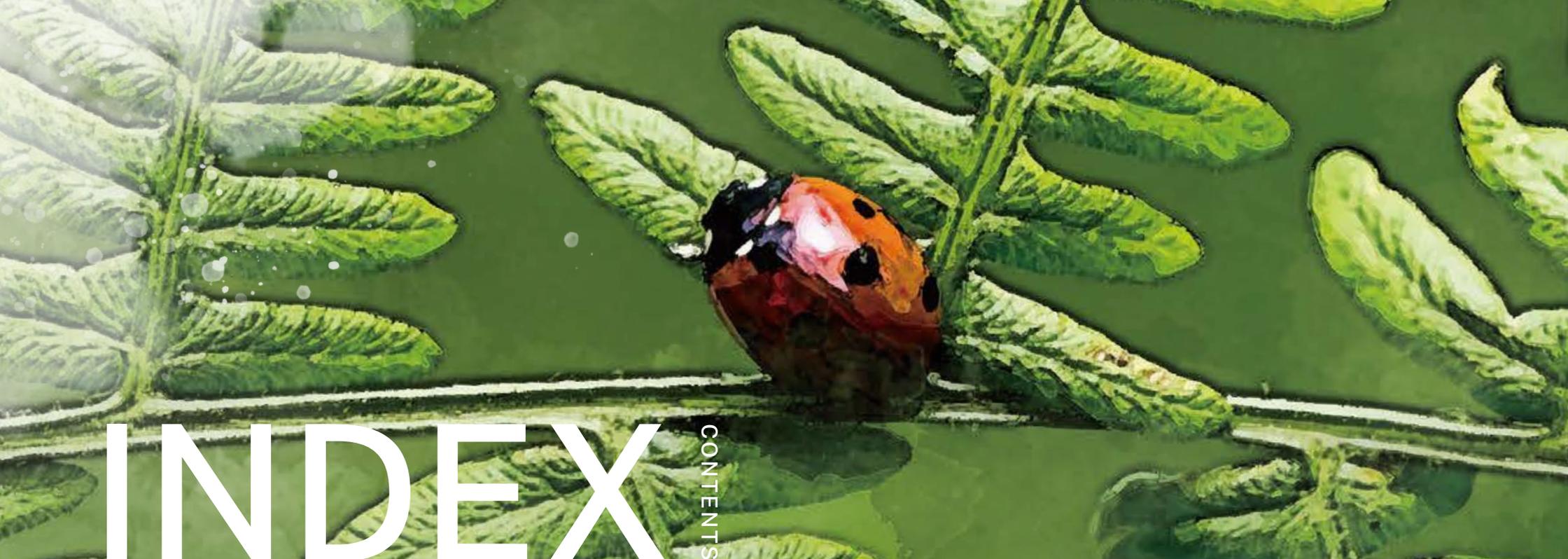


國立臺北科技大學

NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY
SUSTAINABLE DEVELOPMENT REPORT

2023 SDGs report





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SDG 1

No Poverty

National Taipei University of Technology Promotes Social Justice and Student Support Programs

National Taipei University of Technology, adhering to the founding philosophy since its establishment, actively undertakes social responsibility and is committed to supporting underprivileged students, striving to achieve “equal educational opportunities and social justice.” To this end, the University specifically allocates spots for students from “low-income or near-poor households” in its admission process. Since the academic year of 2018, it has also made special efforts to visit remote areas, such as Ren’ ai Township in Nantou County and Kinmen County, to conduct recruitment activities, encouraging local students to enroll in the University. For underprivileged students, the University also provides transportation and accommodation subsidies, waives application fees, and offers scholarships and financial aid policies to encourage students from families in the bottom 20% income bracket to apply.

Tuition Waivers and Subsidies

26.21% students will receive tuition fees and other education subsidies.

2023
13,659
students at
the university

The University provides various support measures for underprivileged students, including:

- Tuition and fee waivers (**735** students)
- Financial aid program for underprivileged students, covering fellowships, living fellowships, emergency relief funds, and accommodation discount (**182** students)
- Various scholarships
- Graduate scholarships
- Work-study allowance

A total of **3,300** students benefited from these programs.

Increased Enrollment and Graduation Rates

The university has been highly effective in assisting low-income students with registration and successfully completing their studies. In the 2023 academic year, 252 low-income students registered with a 100% enrollment rate, and the total amount of tuition and fee waivers for that year reached NTD 9,468,581. In addition, in alignment with the Higher-Education Deep Cultivation Program, the University has

1 No Poverty



established the “Jade Carving Program,” offering 10 counseling and scholarship mechanisms. This initiative further reduces the dropout rate (which is only 2.7%) and increases the graduation rate, with the 2023 academic year’s graduation rate reaching 86.4%.

Transportation Subsidy for Admission Exams

To encourage economically or culturally underprivileged students to apply to the university, the university has established the “Guidelines for Subsidizing Transportation Expenses for Students Participating in University Admission Activities.” The subsidy covers transportation and accommodation costs for students attending entrance exams, interviews, and other admission activities, as well as students who take summer remedial courses after being admitted. This subsidy aims to reduce the financial burden on students and increase their motivation to apply to the university. Since the introduction of the transportation subsidy for admission exams, the funding amount has increased from NTD 58,000 to NTD 140,000. Due to the impact of the pandemic from 2021 to 2022, the university canceled on-campus admission exams, mock interviews, and admission briefings to reduce the risk of students traveling by public transport. After the pandemic eased, the university helped 36 economically underprivileged students participate in the second phase of the interview service by 2023, with a total expenditure of NTD 42,641.

Improve the Assistance Mechanism for Underprivileged Students

In the face of rapidly changing global circumstances, widening wealth gaps, and the increasing number of underprivileged students, the university is committed to fulfilling its social responsibility. It actively integrates various resources to improve support mechanisms for underprivileged students. The university has established relevant enrollment, subsidy, reward, and counseling systems. Based on students’ different family backgrounds and learning conditions, the university has increased enrollment options and course selection methods for economically underprivileged students. At the same time, the university integrates various subsidy resources, including implementing tuition and fee reductions for low-income, near-poor households, and economically underprivileged students, as well as providing learning-based living fellowships, accommodation discounts, and work-study fellowships. The university also actively seeks various scholarships and financial aid to reduce students’ financial burdens, allowing them to focus on their studies. Additionally, for students with disabilities, the university has established an “Individualized Support Plan” to create a comprehensive assistance mechanism, ensuring that they receive care and support in both their academic and daily life.

Improve the assistance mechanism for underprivileged students

Enrollment

1 Accurate recruitment and selection

- Pathway course advanced study mechanism
- Senior vocational school strategic alliance
- Enrollment and promotion of Jade Carving Ambassador
- Interview transportation and accommodation subsidy

2 Diversified admissions channels

- Additional quota for admission
- Education for students with special needs
- Review the admission mechanism for bonus points
- Priority for exemption from entrance exams for the associate's degree students

3 Integration of enrollment information

- Guidelines for preparation of audit information
- Department introduction
- Campus life guided tour

Study counseling

1 Comprehensive living and learning assistance

- Tuition and fee waivers
- Financial aid for underprivileged students
- Living fellowship
- Accommodation reduction or waivers
- Student loans
- Off-campus rent subsidy
- Emergency relief

2 Diverse learning rewards

- The “Grateful” Scholarship
- The “Jade” Scholarship
- The “Jade Carving” Scholarship

3 Digitalization of counseling

- Online consultation appointment
- Tertiary prevention counseling
- Mentor guidance
- Peer mentoring
- Career counseling
- Club guidance
- Homework guidance



Support system

“Recruitment and Selection Information” channel

“Student Financial Assistance Program” platform

Fundraising Project of the “Jade Carving Program”



Jade Carving Program

To secure additional educational resources for economically and culturally underprivileged students, the University has actively pursued the Ministry of Education’s Higher-Education Deep Cultivation Program. This initiative aligns with the Ministry of Education’s “Assistance Plan for Underprivileged Students in Colleges and Universities,” reserving enrollment quotas through appropriate admission channels and specifying preferential scoring conditions in admission guidelines to facilitate access to higher education for disadvantaged students. The program also subsidizes application fees, transportation, and accommodation costs for university admission interviews, achieving significant results. Central to these efforts are learning and enrollment support mechanisms designed to assist economically or culturally underprivileged students. The University has established a centralized portal and website to integrate various support and counseling resources, offering comprehensive life and financial assistance. Through scholarships and grants, these students are empowered to focus on their education without financial concerns.

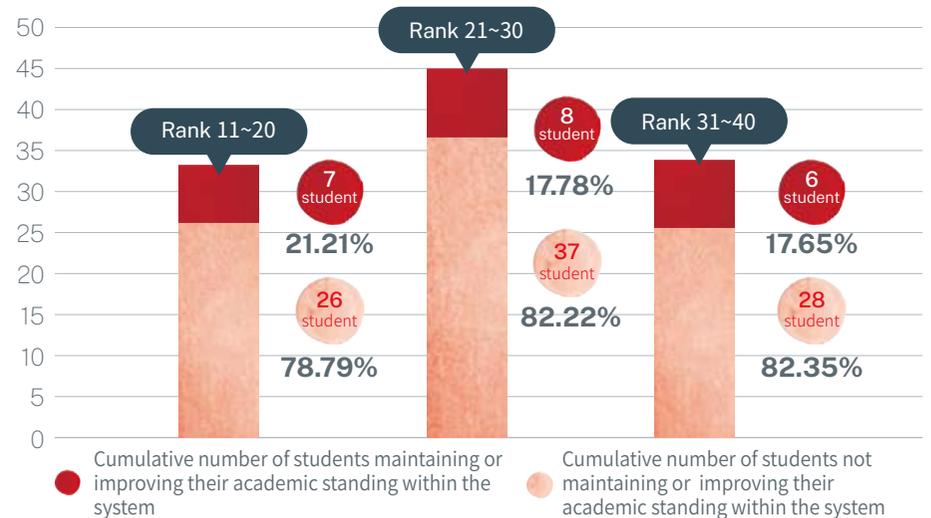
This program encompasses a variety of counseling programs, categorized into academic, certification, international, competition, and career development types. The goal is to enable economically or culturally underprivileged students to balance their academic pursuits with their living needs, thereby increasing their enrollment and participation in counseling services. Analysis of annual feedback from students in the Jade Carving Program reveals a high level of satisfaction among scholarship recipients regarding the University’s counseling measures.

Status of the Jade Carving Program

Year	2021	2022	2023
Number of people benefited	1,518	1,023	640
Number of people benefited	833	453	422
Sponsored funds (NTD)	10,715,400	10,876,280	9,801,670

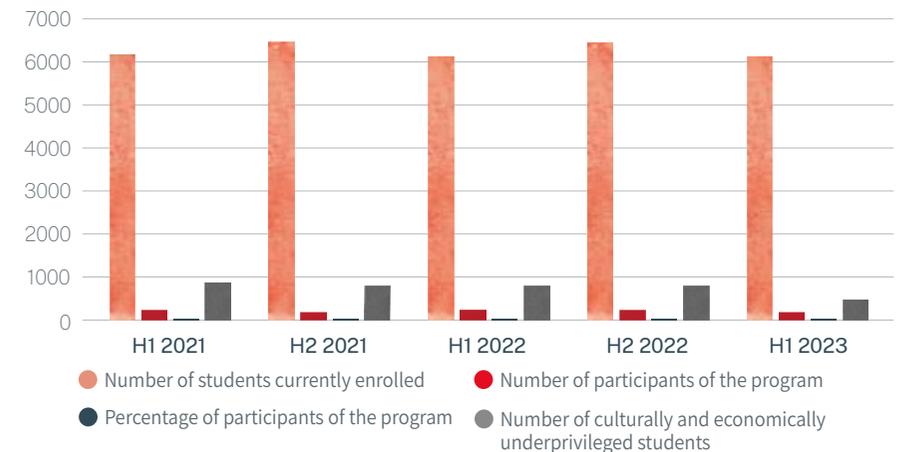
Progress in the performance of students in the Jade Carving Program

Academic performance of students ranked 11 to 40 in their respective department after receiving the motivational scholarship



Percentage of underprivileged students receiving counseling

Percentage of number of students who received the Jade Carving Program scholarships



International Students and Multicultural Support

The University actively recruits students from low-income countries, including Tanzania, Ethiopia, Burkina Faso, Haiti, Nigeria, and Malawi. These international students can apply for various scholarships, such as a full tuition waiver for graduate students along with a monthly allowance of NTD 6,000, and a full tuition waiver with a monthly subsidy of NTD 12,000 for master's students. Additionally, they are eligible for a monthly living allowance of NTD 33,000 under the Ministry of Foreign Affairs Taiwan Scholarship.

To support economically and culturally underprivileged students, the University has established a comprehensive counseling mechanism, integrating resources such as tuition discounts, scholarships, peer and mentor guidance. Additionally, the University has set up an Indigenous Students Resource Center, actively creating accessible facilities to foster a friendly and diverse learning environment.

Innovation and Entrepreneurship Support

National Taipei University of Technology actively supports the development of startup businesses by integrating research resources from industry, government, and academia. The University nurtures more than 10 startup companies each year and organizes over 30 entrepreneurship courses and competitions. It also provides more than 60 professional consultation services to help businesses enhance their competitiveness.

In the entrepreneurship courses, the University assists companies in writing business plans and financial projections. It



also collaborates with KPMG and accounting firms to serve as tax and financial advisors. In addition, the University also helps startups list on the Emerging Stock Board and recommends innovative achievements to the Taipei Tech Developing Corp. and Bei Ke Zhi Xing Entrepreneurship Investment Co., Ltd., assisting businesses in securing government startup funding support.

Through entrepreneurship courses, including business models, fundraising, digital marketing, website development, business plans, and financial planning, the participants gain a comprehensive understanding of entrepreneurship and receive support in successfully launching their businesses.

Among the enterprises incubated, Shengsen Cloud Technology successfully enhanced its competitiveness through a professional software outsourcing model.



The contracted company Shengsen Cloud Technology was honored with the **「Nurturing Star – Rapid Growth Award」**

The contracted company Shengsen Cloud Technology was awarded the “Nurturing Star – Rapid Growth Award” this year, which recognizes companies with a continuous revenue growth rate of over 15% for three consecutive years. Shengsen Cloud Technology, with its innovative model providing professional information services, achieved an average revenue growth rate of over 100% in the past three years, earning this prestigious honor and setting an exemplary standard for startups!

Health and Lifestyle Education

National Taipei University of Technology values the health and basic living needs of its faculty and students. Each year, the University organizes multiple health seminars covering topics such as CPR, food hygiene, smoking cessation, weight loss, blood pressure reduction, boxing aerobics, HIV prevention, and healthy eating. In 2023, the University organized 51 health seminars, with a total of 1,784 participants, actively promoting a healthy campus culture.

The University, through a series of scholarships, entrepreneurial support, and health promotion activities, is committed to achieving social justice, fostering new startups, and enhancing the comprehensive development of students on campus. The University not only provides financial support but also integrates industry, government, and academic resources to create a fair, friendly, and supportive learning environment for students.

2023

the University organized

51 health seminars

with a total of **1,784** participants



actively promoting a healthy campus culture.



Safety and Health Training and Employee Health Examinations

☉ Safety and health education and training matters

- A total of 5 sessions of safety and health education and training for faculty and staff were held, along with 3 disaster prevention drills.
- A total of 4 sessions of safety and health education and training for new employees were held, with topics including “Healthy Living – Exercise and Diet,” “Common Musculoskeletal Disorders and Office Ergonomics Hazard Prevention,” and “Understanding Overwork – Overview of Overwork Identification and Case Sharing.”



☉ Health examinations, health management, and health promotion matters

- We entrusted Far Eastern Memorial Hospital to conduct general health examination for employees, with 218 participants in this year’s health examination. Additionally, two new free cancer screenings (Papanicolaou test and mammography) were introduced in 2024, with 46 individuals undergoing the screenings.
- In 2023, occupational medicine services were provided at the school a total of 6 times.



SDG 2

Zero Hunger

We promote campus sustainability and work toward reducing food waste.

The University continues to dedicate efforts toward promoting sustainability, with a particular focus on addressing food waste on campus. To prevent food resource waste, the University continues to track and measure the amount of discarded food.

In 2023, the total amount of food waste on campus was **22,443** kilograms with an average of **1.47** kilograms of food waste per person.



The food waste on campus is mainly collected regularly **by a recycling company for reuse, ensuring that resources are not wasted.**

the University requires them to make improvements within a specified period. If improvements are not made, the University will **impose fines or terminate the contract in accordance with the terms of the agreement.**



In 2023, the total number of students and staff at the University was 15,258. The University conducts occasional hygiene supervision of food service providers every week and performs two tests per semester on food microorganisms and additives. A total of **48** samples were tested in 2023. For vendors with identified issues



2 Zero Hunger



Campus discounts and dining policies

To support economically underprivileged students and staff, campus food vendors sell items close to their expiration date, or with a shelf life of less than 8 hours, at a discounted price of 30% to 35% off. On weekdays, faculty and students on campus enjoy a 10% or 20% discount on food. In addition, coffee machines are available in various offices on campus, offering coffee to staff at cost price. The coffee in the General Affairs Office is sold for only NTD 10 per cup.



- 🌀 The vendors on campus provide friendly food with a shelf life of less than 8 hours before expiration, selling them to faculty and students at discounted prices.
Coffee in the office of the General Affairs Office is only NTD 10 per cup.



Healthy and Sustainable Diet

The University is committed to providing healthy, safe, and nutritionally balanced meals. The campus restaurants prohibit the use of genetically modified ingredients and emphasize low-temperature cooking to preserve the original flavor and nutritional value of the food. For example, the campus offers healthy meal boxes featuring sous-vide chicken breasts, while the convenience stores provide a variety of health-conscious food options. Additionally, the University prioritizes the procurement of local and sustainable products, and requires food service providers to purchase agricultural products certified with government food safety labels. The origin of daily ingredients is indicated on the Ministry of Education's Campus Food Ingredient Registration Platform 2.0, with the main sources being local Taiwanese products, supporting local agriculture and sustainable development.



Healthy Meal Boxes

While promoting campus sustainability, the University focuses on the issue of food waste and implements measures to reduce food waste. In addition, the University provides economical catering services for teachers and students, while ensuring the safety and nutritional value of the food. Through these efforts, National Taipei University of Technology is building a healthier, more sustainable, and inclusive campus environment.



Promote Organic Farming and Food and Agriculture Education: Local Practices and Quality Improvement of Sustainable Agriculture

The University actively promotes its University Social Responsibility (USR) implementation plan, dedicated to assisting local farmers in adopting environmentally sustainable organic farming practices while enhancing the quality of agricultural products' transportation and cultivation. In 2024, the University held 3 youth farmer training courses in the East Coast Tribe of Ren' ai, Nantou, with 55 participants, imparting knowledge on organic farming and sustainable agriculture practices. Additionally, the University collaborated with small farmers from Yangmingshan to conduct community workshops at the Beitou Interim Market, promoting food and agriculture education as well as the concept of sustainable ingredients. Over 100 community participants were involved.



🌀 Ribbon-cutting and Vehicle Escort Ceremony for Refrigerated Truck

To reduce agricultural losses caused by refrigerated and frozen transportation, the University has connected with refrigerated transportation companies. With the expertise of the Department of Energy and Refrigerating Air-Conditioning Engineering, the University assists in cold chain monitoring, ensuring quality management throughout the transportation process. At the same time, to enhance the quality of cultivation, the University regularly provides its chemical laboratory to test the nutritional value of local vegetable products and soil composition, further supporting the sustainable agricultural development of local farmers.



SDG 3

Good Health and Well-being

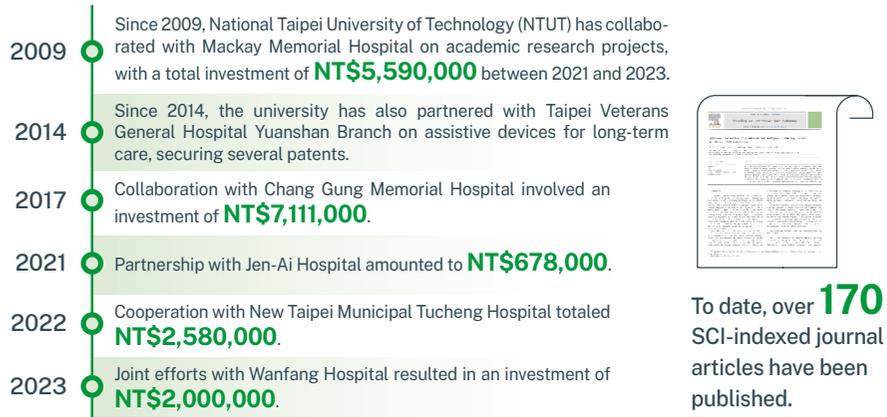
Partnerships and Health Services

National Taipei University of Technology actively participates in local and global health organizations' programs and encourages faculty members to take concurrent positions at relevant institutions, directly addressing health-related issues. As of now, the University has undertaken 109 health-related projects and has promoted academic collaboration programs across countries, universities, and institutions (such as hospitals).



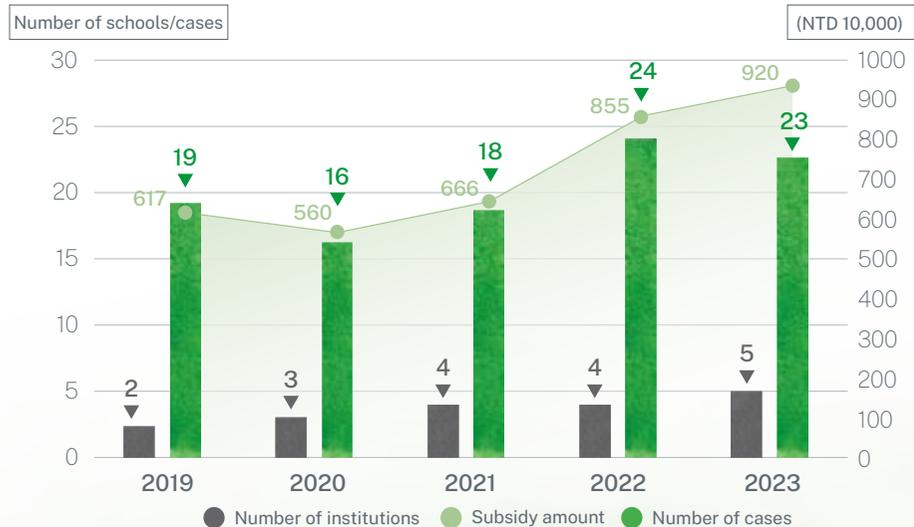
Collaboration with Harvard Medical School Professor Fang Hsu-Wei, from **Bioteq Corporation**, has teamed up with Harvard Medical School and 10 industry partners to establish an international biomedical integration platform.





The collaborations focus on areas such as AI applications, clinical applications, biomedical materials, clinically oriented research, hospital management, and medical humanities. The technical research and development are led by professional faculty members, who also support clinical testing.

The statistics for the number of subsidy items and the amount provided by the University and hospital institutions from 2019 to 2023



National Taipei University of Technology organizes various health promotion activities every year. These include training for food service personnel on hygiene, influenza vaccination, health screenings for HIV and metabolic syndrome, and carbon monoxide screenings for smoking prevention. These activities have attracted widespread participation from community businesses, faculty and staff, their families, as well as retirees.

In addition, as the Ministry of Education's platform office for promoting industry-academia collaboration, the University actively forms a biotechnology and pharmaceutical industry working group. Members include representatives from the Taipei Biotechnology Service and Business Association, the Food Industry Research and Development Institute, Yuanpei University of Medical Technology, Chung Hwa University of Medical Technology, Grape King Bio, and Medigen Vaccine Biologics Corp., among others. This working group primarily promotes internship collaborations between the University and industry, fostering industry-academia connections and talent cultivations.

The number of students matched with industry internships through industry-academia collaborations

Name of University	Name of department	Number of students
National Taipei University of Technology	Chemical Engineering & Biotechnology Department	32 students
Yuanpei University of Medical Technology	Department of Biotechnology and Pharmaceutical Technology	13 students
Chung Hwa University of Medical Technology	Department of Pharmaceutical Science and Technology	65 students
Chung Hwa University of Medical Technology	Department of Biotechnology	23 students
Chung Hwa University of Medical Technology	Department of Medical Laboratory Science and Biotechnology	166 students
Total		299 students

Since 2021, the University has collaborated with Taipei Medical University to jointly invest in R&D resources, aiming to establish a high-quality industry-research environment and implement mechanisms for market evaluation and product commercialization guidance.



Health Education Courses and Services

The University offers a general education course titled “Health Promotion and Emergency Care,” covering topics related to health promotion. Additionally, health lectures on topics such as HIV prevention and sexual education are organized, with participation open to students. In addition, the University provides health information through various channels such as websites, scrolling banners, electronic display boards, posters, and slogans, allowing students to freely access promotional materials.

The University also offers free mental health services to students, who can schedule counseling sessions through an online appointment system, by phone, or by visiting in person. In addition, the University has fully implemented a smoking ban policy, executing related tasks in accordance with the “National Taipei University of Technology Campus Smoking Control Management Guidelines,” providing a healthy, smoke-free environment for all students and faculty.

To further promote the health and well-being of faculty, staff, and students, the University organizes a variety of health promotion and hygiene education lectures and activities each year, covering topics such as healthy weight management, sex education (including HIV prevention), infectious disease control, healthy eating, first aid training, and outdoor walking. These activities align with the Ministry of Education’s health promotion University program and collaborate with medical institutions. Through regular exercise and healthy eating, they help faculty, staff, and students develop good lifestyle habits, improve self-health management skills, and ultimately promote a high-quality healthy life.

Starting from March 1, 2021, smoking has been completely prohibited on the sidewalks surrounding the University, including Xinsheng S. Rd., Zhongxiao E. Rd., and Jianguo S. Rd. In response to the revision of the Tobacco Hazard Prevention Act, the University officially removed all smoking areas starting from March 1, 2023, and placed no-smoking signs at all campus entrances and locations where smoking areas were previously located. Promotional methods include displaying posters and banners, broadcasting messages on scrolling displays, using campus mail services, maintaining a campus tobacco hazard prevention webpage, and utilizing social media platforms for all students.

Health protection volunteers promote the no-smoking policy on campus and its surrounding areas, while the Military Education Office, Security Office, and Health Protection Unit patrol the campus and smoke-free sidewalks to dissuade individuals from smoking in prohibited areas. In 2021, 32 individuals were dissuaded from smoking, 35 in 2022, and 21 in 2023. Additionally, the University collaborates annually with medical institutions to organize smoking cessation programs. These courses are conducted by physicians, psychologists, nutritionists, and exercise health specialists, covering smoking cessation techniques, healthy eating, and exercise management. The programs aim to help participants enhance their self-image and confidence while effectively reducing smoking during the activities.

Name of health promotion activity

Activities in 2023

“Reading Supply Station: Health X Exercise” online book fair and points collection activity

Jointly organized with the Library and Information Division Through themed recommended books, participants gained knowledge about health and exercise care. The library’s exhibition area showcased books on health and exercise topics, along with posters such as “Drinking Plain Water is Healthiest” and “How to Sleep Well,” aiming to enhance self-health awareness among faculty, staff, and students. A total of 111 faculty and staff members and 59 students participated, amounting to 170 participants.



“My Healthy Plate for Balanced Meal,” “Drink More Water, Reduce Sugary Beverages,” and “Free Anonymous HIV Screening and Awareness Campaign.”

The Club Expo was co-organized with the Da’an District Health Service Center and the Taipei City Hospital Kunming Prevention and Control Center, with a total of 172 participants.



Health promotion courses: “Physical Fitness Class, Blood Pressure and Cholesterol Reduction Class, and Boxing Aerobics Class.”

For faculty, staff, and students with BMI ≥ 25 , systolic blood pressure ≥ 130 mmHg, diastolic blood pressure ≥ 85 mmHg, or total cholesterol > 200 , the program included 7 boxing aerobics sessions, 23 spinning aerobics sessions, and 7 nutrition courses. A total of 74 participants (42 faculty and staff, 34 students) attended, resulting in 37 sessions with 830 total participants.



Tobacco Hazard Prevention and Carbon Monoxide Testing Awareness Promotion

Large campus events such as the club fair were held in collaboration with Taipei City Hospital Ren’ai Branch. Participants engaged in a quiz on tobacco hazard knowledge, and prizes were awarded to those who completed the challenge. A total of 370 people participated.



Red Cross Society Junior First Aid Training

A two-day, 16-hour course was held, with 48 participants (45 from NTUT, 2 from National Taiwan Ocean University, and 1 from National Taiwan University of Science and Technology). Of these, 47 participants passed both the theoretical and practical exams, earning a basic first aid certificate.



SDG 4

Quality Education

Graduates and Teaching Qualifications

National Taipei University of Technology is committed to providing high-quality education. The total number of graduates is 3,674, with 6 graduates obtaining junior high school teaching qualifications.

Library Resources and Services

To promote lifelong learning for all, the library provides high-quality and free educational resources to the public. Alumni can access the library with an alumni library card, and 30 external readers are allowed entry each day. Last year, the number of alumni library card applications reached 148, and the number of alumni and external readers entering the library significantly increased to 30,206 visits, up from 17,464 visits the previous year. Additionally, starting in 2024, the library will expand its service to include faculty and staff of the Affiliated Tao-Yuan Agricultural & Industrial Senior High School of NTUT, faculty and staff family members, local residents, and students of the Mandarin Training Center. They will be able to apply for a library card for free and enjoy free reading and access to electronic resources.

Arts and Cultural Activities and Community Engagement

The campus actively hosts a variety of events, such as new book launches, movie premieres, and cultural activities. It has also collaborated with the local community to organize movie appreciation events. Since the year before last, some lectures and exhibitions have been open to the local community, enhancing the public's cultural literacy. In 2023, five art and cultural exhibitions and lectures were held, open to external visitors. In the future, motion-sensing people counters will be installed at the exhibition venues to accurately track visitor numbers. To attract external visitors, there are plans to host evening movie screening events, combining leisure and education.

The library has recently offered the following cultural and artistic activities for external visitors:

In 2023, the library will continue to cooperate with the University in promoting sustainable development goals by organizing relevant art and cultural exhibitions and lectures, which are open to outsiders.



1 [Reading Ability Up!] Seminar on Book Selection and Effective Reading Skills.

In line with the “Open the New Year with Reading” Book Exhibition and Series of Events, on March 15 (Tuesday), a “Book Selection and Effective Reading Skills” lecture was held. Mr. Cheng Chun-Te, founder of the popular reading community “Readers,” was invited as the speaker to teach readers how to choose books that suit them and how to read effectively and internalize the ideas into their own thinking.



2 [Drawing Dreams with a Paintbrush] The Dream-Building Journey of Illustrator Miss Cyndi Seminar.

As part of the “Igniting Sparks in Life” Style Professionals and Entrepreneurship Book Exhibition series, on October 17 (Tuesday), an illustrator seminar was held. The speaker, Miss Cyndi, shared insights on the sources of her creative inspiration and the journey of building and managing her brand.



3 [Sustainable WECAN-SDGs x USR Achievement Exhibition] Zhongxiao Cultural and Arts Corridor Exhibition.

To showcase the sustainable initiatives of the university, the Library and Information Division, in collaboration with the Office of University Affairs and the Center for Sustainable Development, organized the “Sustainable WECAN-SDGs x USR Achievement Exhibition” at the Zhongxiao Cultural and Arts Corridor in 2023. The exhibition was divided into five main sections, including the main visual wall, alumni video appreciation area, interactive message area/understanding SDGs, SDGs book resource flipbook, and practical achievement area. The practical achievement area displayed 22 sustainability case studies, referencing the 2022 sustainability report, which included 12 “University Social Responsibility Cases” and 10 “Sustainability Research Cases.” In addition to showcasing the University’s USR and SDGs implementation achievements, the exhibition also featured the SDGs Resource Flipbook, offering visitors access to books and audiovisual materials. The goal is for the library to become a valuable partner in the learning journey of students and faculty. In addition to the static exhibition, promotional activities were also organized to encourage participation from faculty, staff, students, alumni, and external visitors.



4 [Library Week: “Lost in a Cats World”] Photography Exhibition and Seminar.

In alignment with SDG Indicator 15 “Life on Land,” the library organized the “Lost in a Cats World” photography exhibition and seminar. The exhibition showcased photography works focusing on stray cats, and a photography instructor was invited to share their creative journey, aiming to raise awareness among students, staff, alumni, and the public about the ecological observations and importance of the surrounding environment.



As part of the “Protecting the Earth through Action” ecological conservation book exhibition series, the library held a screening of the documentary “Beyond Beauty – Taiwan From Above” on December 12. Following the screening, a post-viewing discussion was held with Mr. Chi Ting-Huan, the son of director Chi Po-Lin. He shared the legendary story of his father’s vision of Taiwan and the continuing mission of the “Chi Po-Lin Foundation,” which is dedicated to preserving and protecting Taiwan’s natural environment.



Online Courses and Social Media Promotion

In addition, the University collaborates with industry and inter-school resources, inviting professional instructors to continuously develop online open courses covering topics such as innovation and entrepreneurship, culture, language, and industrial automation. These courses are promoted through social media to expand their reach.



Course Title	Time of Course	Location	Course Content	Number of Participants	List of Participating Contractors
Moldflow Analysis and Intelligent Injection Molding Machine Integration Training Course	March 23, 2023	Moldmax Technology Corporation	Many domestic and international enterprises have adopted hot runner systems and Moldflow software in plastic part design, mold design, and process optimization to shorten development cycles, enhance product quality, and achieve cost reduction. However, many analysts lack analytical experience and practical expertise in injection molding, resulting in low efficiency and accuracy in their analyses.	51	16
Industrial Sustainable Development - Energy Management Course	April 26, 2023	Conference Room on 3F, New Taipei Industrial Park Service Center	The issue of achieving net-zero carbon emissions is rapidly impacting various industries. Most Taiwanese businesses lack relevant experience and have limited understanding of carbon inventory, carbon reduction, and carbon neutrality. However, they are on the verge of facing the critical challenge of carbon border taxes imposed by major economies such as those in Europe and the United States, which could severely affect the future development of Taiwanese manufacturers. This underscores the urgent need for green transformation. To support industrial development, this event has been specifically designed to help manufacturers understand relevant net-zero carbon emission topics and share case studies.	48	31
Challenges and Countermeasures of Industrial Information Security - Talent Training Course	July 12, 2023	Conference Room on 3F, New Taipei Industrial Park Service Center	According to research, domestic enterprises exhibit insufficient awareness of information security, with limited allocation of budgets for information security. Information security tasks are often handled by network administrators as an additional responsibility. Due to the lack of routine security assessments, organizations fail to gauge the severity of security incidents, leading to operational losses. To address this issue, the University collaborated with the New Taipei Industrial Park Service Center to organize an information security event. Industry experts were invited to share insights on information security governance and case studies, enabling businesses to gain a deeper understanding of the impact of information security on their future operations.	43	32
Opportunities for Post-pandemic Industry Transformation	September 12, 2023	Conference Room on 3F, New Taipei Industrial Park Service Center	Since the first patient sought medical treatment in December 2019, the COVID-19 pandemic has rapidly escalated like a snowball. The outbreak has led to economic recessions across nations. Confronting the pressures of the pandemic and the challenges of digital transformation, small- and medium-sized enterprises must explore new methods of adaptation and transformation. During the pandemic, various industries faced operational difficulties, prompting the need for swift responses and accelerated digitalization efforts. It is aptly said, "It was the worst of times, yet also the best of times." The event provided businesses with an opportunity to seize the moment for transformation and achieve new operational heights.	31	23
Total				172	

Diverse Speeches and Seminars

The University organizes approximately 30 diverse speeches or seminars on various topics and professional fields each year. It also collaborates with the Ministry of Education and the Ministry of Economic Affairs to offer relevant courses, including teacher capacity-building workshops, entrepreneurship marketing, fundraising, and business model courses. The public can easily find related information on the University's homepage at any time. In addition, forums, seminars, and vocational training activities held on campus or in industrial zones aim to enhance the public's workplace skills and knowledge. In the past three years, the University has organized over 30 seminars, with 4–6 talent training courses held annually in industrial zones, each lasting 12–18 hours.

Topic	Date	Method	Number of Participants
Super Teacher Flip Classroom	3/20	Physical & Online	45
4C Steps to Creating Engaging Courses	4/10	Physical & Online	61
Are you the Sword Sect? Or Airbender? What and How to Teach in the Classroom	4/26	Physical & Online	38
Creating the Metaverse Gateway for the Classroom: VR Teaching Materials Hands-on Workshop	5/18 & 6/1	Physical	15
The University System of Taipei's Achievement Sharing Session on Innovative Teaching	6/30	Online	69
Introduction to OTB Teaching Materials & Useful OER	11/10	Online	69
Application and Implementation of AI Generation Technology in the Field of Education	11/21	Online	105
Practical PowerPoint Design: Quick Tips for Getting Started	11/30	Online	122
Effective Teaching and Course Design: BOPPPS Makes Your Teaching Easy!	12/8	Physical	12



SDG 5

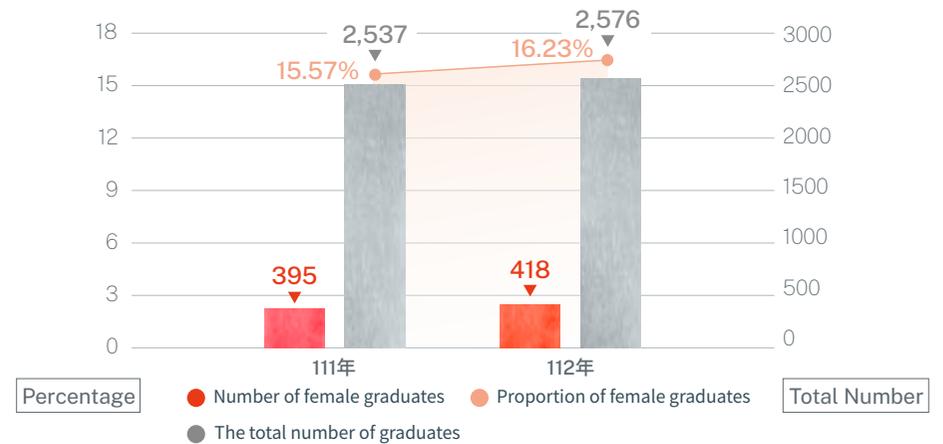
Gender Equality



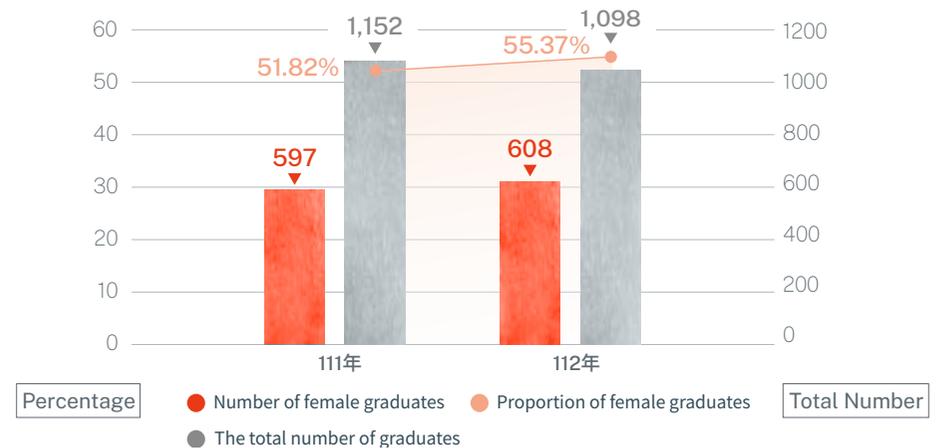
Graduate to Female Proportion

National Taipei University of Technology had a total of 3,674 graduates in the academic year of 2023, with the proportion of female graduates varying by academic fields:

College of Electrical & Mechanical Engineering, College of Electrical Engineering and Computer Science, College of Engineering :



College of Management College of Design, and College of Humanities and Social Sciences :



The application and admission rates for female students across various undergraduate admission channels in the 2023 academic year.

Vocational High School						
Recruitment Channels	Application Rate			Acceptance Rate		
	Number of Female Applicants	Total Number of Applicants	Percentage	Number of Female Applicants	Total Number of Applicants	Percentage
Technical Excellence Review	257	633	40.6%	27	61	44.3%
Selection for Admission	319	991	32.2%	187	546	34.2%
Special Talent Selection	53	103	51.5%	1	6	16.7%
	5	18	27.8%	0	1	0.0%
Average			38.0%	Average		23.8%

Senior High School						
Recruitment Channels	Application Rate			Acceptance Rate		
	Number of Female Applicants	Total Number of Applicants	Percentage	Number of Female Applicants	Total Number of Applicants	Percentage
Application for Admission	351	1173	29.9%	90	287	31.4%

Proportion of Senior Female Teachers

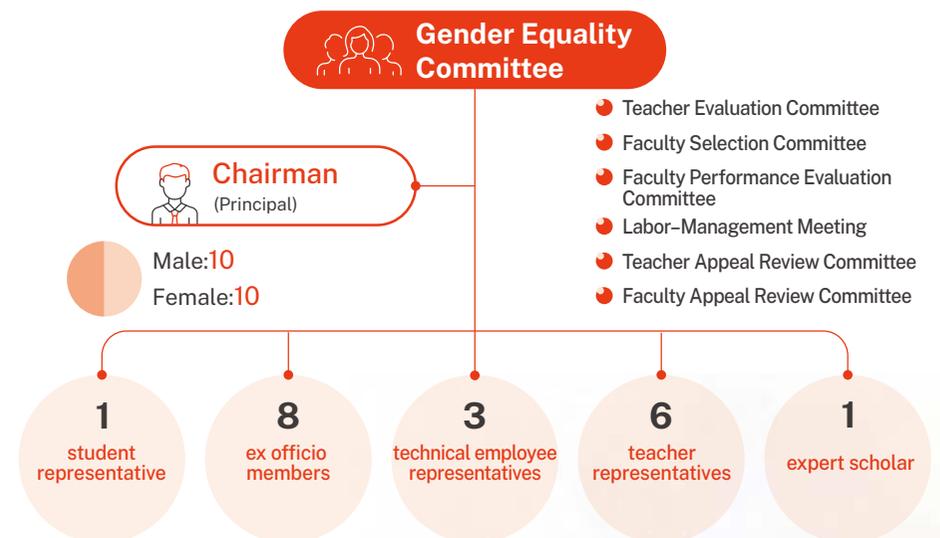
Among the senior teachers, the proportion of female teachers is relatively low



Gender Equality Policy and Support Measures

The workplace gender and equality responsibilities of Taipei Tech are fully demonstrated in the composition of its committees. To ensure substantive gender equality, the University follows the relevant guidelines for committee composition, ensuring that no gender proportion is below one-third. This principle allows for representation from all genders, enabling them to express opinions from different perspectives. It also ensures that individuals of all genders can equally participate in the decision-making process in each committee, promoting gender equality in decision-making participation.

Structure of the Gender Equality Committee



Number of gender-related complaints and follow-up procedures and result

- (I) Gender equality case investigation and handling are divided into two types: the first type is an application for investigation (by the victim or legal guardian), and the second type is a report investigation (by any individual). The related procedures follow the Gender Equality Education Act, the University’s regulations on campus sexual assault, sexual harassment, or sexual bullying prevention, the University’s sexual harassment prevention complaint and investigation handling guidelines, and the University’s gender equality education implementation regulations.
- (II) After an investigation by the University or competent authorities confirms the validity of a campus gender-related incident, the case should be handled according to relevant laws or regulations. This may involve taking action such as issuing a warning, recording demerits, dismissal, suspension, non-renewal of contract, removal from position, termination of contractual or employment relationships, or other appropriate disciplinary measures. When sanctioning gender-related incidents on campus, the University, competent authorities, or other authorities in charge shall order the perpetrator to undergo psychological counseling and guidance, and may order him/her to take one or more of the following measures. However, individuals who are permanently prohibited from being hired, employed, or engaged are not subject to this limitation:
 - Apologizing to the victim with the consent of the victim, their legal guardian, or actual caregiver. When the consent of the legal guardian or actual caregiver is obtained, the best interests of the child or adolescent should be the primary consideration, and the individual’s level of mental maturity should be taken into account when weighing their opinion.
 - Completing eight hours of gender equality education-related courses.

Gender equality cases reported in the past three years

Year	2021	2022	2023
Case Throughput	17	23	25
Handling Status	11	7	17

To promote gender equality, the University has established the “National Taipei University of Technology Gender Equality Education Implementation Regulations” in accordance with the Gender Equality Education Act. These regulations emphasize respect for the gender characteristics and sexual orientation of

students and staff, aim to eliminate gender stereotypes and discrimination, and protect the rights of transgender individuals. In addition, the University provides supportive measures such as prenatal leave, maternity leave, and paternity leave in accordance with the “Teachers’ Leave Regulations” and “Rules Governing the Public Functionaries’ Request for Leave,” creating a family-friendly working environment.

Campus Activities and Gender Engagement

In 2023, various units within the University organized 1,746 events covering a wide range of educational fields, including life, safety, energy, art, democracy and rule of law, intellectual property protection, gender equality education, and more. The total number of participants in these events reached 87,203, with 32,635 female participants, accounting for 37.42% of the total.

Gender Balance Strategy

As a university of science and technology, the male-to-female student ratio at National Taipei University of Technology is approximately 7:3. To maintain gender equality, the University regularly monitors enrollment rates, as well as the status of students on leave or who have withdrawn, ensuring a balanced gender ratio. The female graduation rates for the past three academic years are as follows:



Protection of the Rights of Faculty, Staff and Students

According to the “National Taipei University of Technology Student Complaint Handling Procedures,” if a student believes that disciplinary actions regarding their living, learning, or educational rights are unlawful or improper, resulting in harm to their rights, they may file a complaint with the Student Appeals Review Committee. In 2023, a total of 7 grievance cases were handled.

In addition, the University provides relief avenues for employees in accordance with the “Gender Equality in Employment Act” and the “Employment Service Act,” and announces relevant protection channels in the Personnel Office’s regulations section, ensuring the protection of faculty and staff rights.

 **SDG 6****Clean Water
and Sanitation****Water Resource Management**

Taipei Tech has a total of 10 water meters supplying 25 buildings. The Pioneer International R&D Building uses separate water meters for each floor and public areas, with a total of 16 water meters. The University has applied to Taiwan Water Corporation for the Smart Water Manager system to facilitate the monitoring of the latest status and detect any abnormal water leaks. Additionally, a water usage and water level monitoring system has been established to enhance the campus-wide water conservation plan. A total of 32 smart water meters have been installed to enable real-time analysis of water usage for each meter and building, as well as monitoring the water levels in upper and lower water tanks and the operation of booster pumps. Real-time report analysis through the monitoring system enables tracking and comparison of water usage across different zones, effectively managing consumption and promptly identifying leaks. Existing water-use equipment is fitted with water-saving gaskets and devices, and annual restroom renovation projects consistently utilize water-saving certified equipment. Newly installed water-use equipment features automatic flush valves and faucets with water-saving certifications. Water-use equipment is labeled with water-saving stickers to reinforce water conservation awareness. Landscape irrigation water is gradually being transitioned to an automatic timed drip irrigation system, which not only saves labor but also significantly conserves water.

 **6 Clean Water
and Sanitation**

Water Consumption

The university’s water facilities, including faucets, toilets, and urinals, all use equipment with water-saving certifications. Urinals and other facilities are labeled with water-saving awareness stickers and repair QR codes to strengthen water conservation advocacy and ensure prompt reporting of malfunctions. Facilities are also required to be equipped with shock-resistant flow restrictors with automatic water shutoff functionality to minimize water loss during earthquakes. Additionally, fire pumps must be fitted with anti-leak features to prevent significant water leakage caused by earthquakes or improper use. The campus landscape irrigation system is also equipped with monitoring surveillance and automated control devices, which help reduce the occurrence of improper water leakage. The trend chart shows that in April 2024, the water consumption from tap water decreased by 9.02% compared to the same period in 2023. If water usage increases, it can also be tracked and assessed to minimize water loss.

Total water consumption of the school in the past three years:

	2021	2022	2023
Total water consumption (ML)	214.55	241.06	245.45

Rainwater Management

The Third Academic Building has installed a rainwater harvesting system, collecting rainwater from the roof of the building for use in landscape irrigation and toilet flushing. The Fourth Academic Building’s rooftop rainwater harvesting system collects rainwater from the roof for use in irrigating the rooftop landscape plants. In addition, the University’s new construction projects, such as the Banyan Garden project, will also include rainwater harvesting systems. The recently completed Everlight Building and Pioneer International R&D Building both collect rooftop rainwater for use in landscape irrigation. Permeable paving is widely used across the campus, achieving the goal of water retention. In certain areas, such as in front of the Design Building, surface runoff is collected in a rainwater storage tank. This water supplies the ecological pond and, during dry periods, helps with water retention and infiltration into the ground. Efforts are made to enhance the inspection and cleaning of water storage tanks, as well as the maintenance of piping systems. Additionally, rainwater recycling pipelines are clearly labeled (as shown in the attached image) to facilitate identification and maintenance by staff.

Campus Water Consumption Statistics and Analysis

Due to the increase in population and campus activities following the pandemic, the total water usage and per capita water usage in 2022 and 2023 have both risen. The statistical data from the water bills provided by the Taiwan Water Corporation is as follows:

Year	Total water consumption (m ³)	Total number of people on campus	Annual water consumption per person (m ³ /person)
2021	213,367	14,386	14.832
2022	241,049	15,258	15.798
2023	243,376	15,327	15.879

On-campus Wastewater Treatment and Recycling System

The University has established an effective wastewater recycling system within its laboratories. To prevent the discharge of high-concentration waste liquids into the public sewer system and avoid environmental contamination, the first rinse water from laboratory glassware is collected and processed by a waste liquid container. The second rinse water is then passed through the laboratory’s cleaning tank and directed to the building’s simple wastewater treatment system, where it is treated before being discharged into the public sewer system.

On-campus Water Dispenser Management

In recent years, National Taipei University of Technology has gradually increased the installation of drinking water dispensers and implemented energy-saving management. Energy-saving measures include keeping the water dispensers in the dormitories running 24 hours a day, while other water dispensers on campus are only available from 6 a.m. to 10 p.m. on weekdays and are turned off on weekends. In addition, the temperature of the chilled water in the dispensers has been adjusted from 4°C to 14°C to save energy. The following is the number of water dispensers installed in the past five years:

Year	Number of drinking water dispensers
2022	210 units
2023	221 units
2024	227 units

Campus Planting and Water-Saving System

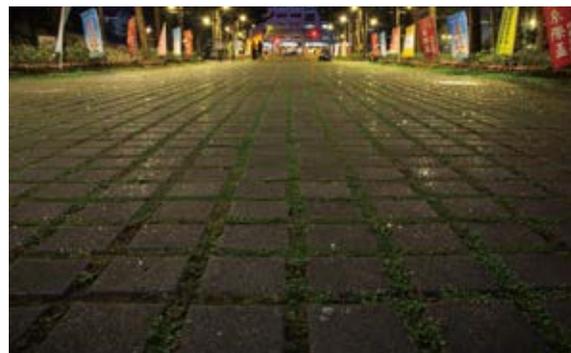
A variety of drought-tolerant plants, such as Common Lantana, Azalea, and Bougainvillea, were planted on the campus to reduce the water demand for landscape irrigation. At the same time, many buildings are equipped with rainwater harvesting and reuse systems, including the Administration Building, Third Academic Building, and Design Building. These systems use the collected rainwater and underground foundation water for landscape



irrigation, ecological ponds, and landscape waterways, effectively reducing the consumption of tap water.

Course and Research Center

To enhance students' understanding of water resource management, the University offers several related courses, such as "Water Resources Engineering and Planning" and "Water Situation Early Warning Systems." In addition, National Taipei University of Technology has established the Water Environment Research Center, collaborating with the Ministry of Economic Affairs' Water Resources Agency and the University of Virginia to promote water resource management and protection. The center focuses on developing forward-looking water quality and quantity management solutions, using permeable paving to allow rainwater to naturally infiltrate into the ground.



Water Resource Conservation Policies and Measures

The University actively participates in the formulation and promotion of various water resource-related policies:

Ministry of the Environment

The school assisted in revising the "Environmental Impact Assessment River Water Quality Assessment Model Technical Specifications" and the "Surface Water Quality Standards," and conducted analyses of reservoir water quality, proposing improvement strategies.

Water Resources Agency, Ministry of Economic Affairs

The school established health check indicators for reservoir catchment areas across Taiwan, analyzing water quality and sediment indicators in these areas, and providing recommendations for improvement.

Campus Water Conservation Advocacy and Green Building Promotion

The University regularly conducts water conservation awareness sessions during orientations for new faculty and staff, as well as mentor meetings. It also promotes the use of water-saving devices, ensuring that faucets, toilets, and urinals in restrooms meet water-saving certification standards. In addition, several faculty members from the Department of Architecture assist middle and elementary schools in promoting ecological campus projects, emphasizing the importance of water conservation. They also established the "Sustainable Environment and Green Building R&D Center" to implement the concepts of green building and sustainable environments.



SDG 7

Affordable and Clean Energy

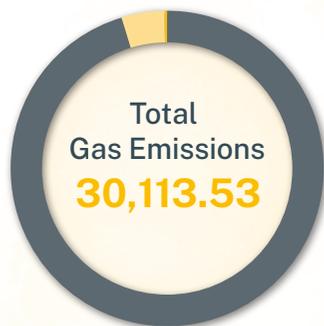
Low-carbon Campus

To implement GHG management and align with international carbon reduction and net-zero targets, Taipei Tech has been working to create a low-carbon campus environment. Starting in 2023, the University has commissioned the Foundation of Taiwan Industry Service to assist in auditing and monitoring its GHG emissions. To ensure the accuracy, completeness, and credibility of the audit data, GHG materiality assessment, emission source identification, and auditing work are conducted in accordance with the international standard ISO 14064-1:2018. The baseline data obtained serves as the foundation for the University's GHG management and the implementation of carbon reduction strategies. In its commitment to creating a low-carbon environment, the University has implemented several measures, including the adoption of an energy management policy, the replacement of energy-efficient lighting, the upgrading of old air conditioning systems, the enhancement of heat pump efficiency, the use of renewable energy, the installation of solar panels, and the establishment of a campus smart energy monitoring system, all aimed at achieving the low-carbon campus goal.



2023 GHG Emissions Results

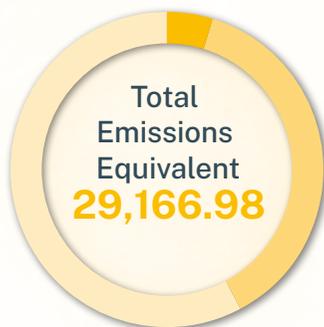
Direct GHG emissions



- CO₂
- CH₄
- N₂O
- HFCs
- PFCs
- SF6
- NF3

Direct GHG emissions								
Item	CO2	CH4	N2O	HFCs	PFCs	SF6	NF3	Total Gas Emissions
Gas Emissions (metric tons/year)	28705.46	1363.32	0.38	44.37	0.00	0.00	0.00	30113.53
Gas station distribution ratio (%)	95.32%	4.53%	0.00%	0.15%	0.00%	0.00%	0.00%	100.00%

Table of Total GHG Emissions



- Categories 1
- Categories 2
- Categories 3

Table of Total GHG Emissions									
Type of Emissions	Categories 1				Categories 2	Categories 3			Total Emissions Equivalent
	Fixed	Manufacturing Process	Mobile	Dissipation	Indirect Emissions (purchased energy)	Employee Commuting	Student Commuting	Employee Business Trips	
Emission Equivalent (metric tons of CO2e/year)	19.40	0.01	14.24	1,407.42	10,935.75	842.40	15111.60	836.13	29166.98
Percentage	0.07%	0.00%	0.05%	4.83%	37.49%	2.89%	51.81%	2.87%	
Scoped Emissions (metric tons of CO2e/year)	1441.07				10935.78	16790.14			-
Category Proportion	4.94%				37.49%	57.57%			-

Energy Conservation and Carbon Reduction Measures



The main substation and branch substations in each building at Taipei Tech are equipped with digital meters for various loads. Through the campus network in each building, electricity usage data is transmitted back. In addition to monitoring real-time electricity usage and recording usage reports, the system can also be set to offload equipment, such as air conditioning units, when usage exceeds preset limits.



Lighting control modules are installed on the lighting circuits of all buildings, and the lighting control status is integrated into the newly established central monitoring system via communication. Infrared motion-sensing modules are installed in corridors, stairways, and restroom areas within the buildings to control the lighting on and off. The system also allows for scheduling of lighting equipment and displays the on/off status of the lighting circuits both on-site and at the monitoring end. The lighting control system can be operated and managed through the Central Building Energy Management System (BEMS). The lighting control system has been completed in existing buildings such as the Administration Building, Library, Integrated Technology Complex, Hong-Yue Technology Research Building, and the Department of Materials and Mineral Resources Engineering. Set lighting time. Replace the lighting switch buttons with communication switch buttons, allowing the lights to be turned on or off at the site.



Replace old air conditioning units with high-efficiency new models, and install variable frequency drives on the outdoor air handling units to improve system efficiency and reduce power consumption. By utilizing natural ventilation for cooling, the load on the air conditioning system is significantly reduced. Pumps and chiller units are operated in coordination, and a monitoring system is implemented to automatically adjust energy-saving management for the air conditioning units. The buildings improved include the Administration Building, Library, and Chiang Kai-Shek Memorial Hall. In addition, all split-type air conditioners have been equipped with energy-saving chips, which control the minimum room temperature to not fall below 25° C. Furthermore, the air conditioners automatically turn off every 2 hours, requiring users to manually restart them if continued operation is desired.



The University has established an energy management policy to encourage energy conservation. If the actual electricity consumption of any department is lower than the previous year's consumption, one-third of the cost of the reduced electricity usage will be added to the department's budget for the following year. Conversely, if the consumption exceeds the previous year's level, one-third of the cost of the excess electricity usage will be deducted from the department's budget for the following year.



The lighting across the entire campus, including both traditional magnetic ballast T8 fluorescent lamps and electronic ballast T5 fluorescent lamps, has been replaced with high-efficiency LED energy-saving lights. Improvement method: An investigation of the existing lighting fixtures in the space is conducted first, followed by measuring the on-site illuminance. Based on the type and location of the current fixtures, an evaluation is made to determine the specifications for replacing the lights. Computer simulations are then used to decide the positions and number of fixtures required. High-efficiency, low-glare LED lights with energy-saving labels are selected for replacement.



The active power regeneration system effectively operates during the momentary surge in DC link voltage, switching excess energy back to the power grid. This method does not require external braking resistors and effectively resolves the issue of load energy. A total of 7 units have been installed, including the Administration Building, the General Studies Building, the Guanghua Building, and the Third Academic Building.



The student dormitories in the East Campus, including the First and Second Dormitories, as well as the student dormitory located at Municipal New Taipei Industrial Vocational High School, all provide hot water for students' showers using heat pump systems.

Statistics on Energy Consumption in the Last 3 Years

The main source of electricity for the University comes from purchased power from Taiwan Power Company. The relevant electricity consumption data is sourced from Taiwan Power Company's electricity bills and covers the East and West Campuses, as well as the Pioneer International R&D Building, within the main campus area in Taipei City. In 2023, the total electricity consumption of the school increased from the previous year due to the increase of campus area, industry-academia collaboration and research projects.

	2021	2022	2023
Total Electricity Consumption Taipei Campus (kWh)	18,830,620	19,250,900	19,935,120
Electricity Usage Intensity (EUI)	87.48	82.45	86.46

註 EUI formula: Total electricity consumption (kWh)/floor area (m2) (campus area of 215,268 m2)

Energy Conservation Improvements and Equipment Upgrades

Every year, the University formulates an energy-saving improvement plan and gradually replaces its old equipment, including the replacement of 493 air conditioners. Solar panels have been installed on campus and installed on the roof of the Integrated Technology Complex, the Pioneer International R&D Building, and the Library. In 2023, the total power generation of these solar panels is approximately 155,250 kWh. In addition, the University has retired its large official buses and replaced them with rented tour buses. Other small gasoline-powered vehicles are only for use by senior officials, and the number of vehicle dispatches is minimized to reduce carbon dioxide emissions.

Energy Conservation Promotion Task Force

According to the University's energy management regulations, the University has established an energy conservation promotion team. The team holds regular meetings to set energy-saving goals and implementation plans, as well as monitoring the energy-saving performance of various units, ensuring the effective implementation of the policy.

Campus Green Buildings

New buildings are designed and constructed according to green building standards

In the past five years, Taipei Tech has constructed buildings such as the Pioneer International R&D Building, Chengpu Building, and planned buildings including the Chicony Building and Alumni Sports Center. All of these buildings were designed and constructed according to green building regulations at the time of applying for building permits. The operation and maintenance of the University's buildings are managed according to internal repair procedures and the building interior decoration management regulations, with the use of green building materials in compliance with legal requirements for a certain percentage. Among them, the Pioneer International R&D Building has obtained the Green Building Candidate Certificate and obtained the Green Building Label in 2021, the Chengpu Building has obtained the Green Building Candidate Certificate and obtained the Green Building Label in 2022, and the Everlight Building received the Green Building Label in May 2023.

Use of green building materials in building renovations

Some of the University's buildings require renovation due to their age and outdated hardware. To achieve environmental sustainability in the renovation process, the University incorporated sustainable green building materials in the planning and design phase of the "Second Academic Building Classroom Renovation Project." This was implemented throughout the subsequent construction by the contractors. The project was completed and put into use on October 4, 2023.

During the construction period, the project applied for GD Green Design Certification from the Taiwan Green Design Council. The council evaluated the healthy green building materials used during the construction process. The certification was based on 28 indicators across four stages, as well as four indoor air quality testing standards:

- Formaldehyde (HCHO) in the space <0.07ppm.
- Total volatile organic compounds (TVOC) in the space <0.53ppm.
- Suspended particulate matter (PM10) in the space <75 µg/m³.
- Fine particulate matter (PM2.5) in the space <35 µg/m³.



After evaluation, the project meets the above indicators and has obtained the "GD Green Design Certification - Gold Level" certification.

Renewable Energy

Taipei Tech actively promotes renewable energy. As of 2023, a total of 191.44 kWp of solar power generation systems have been installed on the rooftops of buildings. The new construction projects at the East 2 Campus and executive staff dormitories have also planned for the installation of solar panels and other solar energy equipment. Over a decade ago, solar panels with a total capacity of 82.68 kWp were installed on the roof of the Integrated Technology Complex. Currently, they are used for teaching and research purposes by faculty members from the Department of Electrical Engineering, with the generated electricity integrated into the building's power supply. Through active maintenance, the system continues to maintain good power generation efficiency.

In addition to the existing 82.68 kWp solar panels on the roof of the Integrated Technology Complex, the University installed 9.76 kWp solar panels on the roof of the Pioneer International R&D Building in 2020, and 99 kWp solar panels on the roof of the Library in 2021. The generated electricity is directly connected to the low-voltage system of the respective buildings for use.



Renewable energy generation in 2023 (kWh)

	Roof of the Integrated Technology Complex	Roof of Pioneer International R&D Building	Roof of the Library
Solar power generation (kWh)	64124	11443	79683

ESG Investment and Management

- Since 2022, the University has invested a total of NTD 193,371,959 in ESG-related ETF funds and has not made any investments in carbon-intensive energy industries.
- In 2023, the University set regulations in its investment management guidelines, stipulating that investments must align with the “University Social Responsibility Practice Plan’s” seven major issues, with particular focus on “Sustainable Environment.”
- When investing the school’s funds, attention is also given to climate change and ESG values, avoiding investments in high-pollution and high-carbon emission industries, while prioritizing companies that operate sustainably and fulfill their social responsibilities.

Energy Education and Research

Energy Forum and Courses

The University holds more than 10 energy-related forums and lectures each year, covering topics such as the “Sustainable New Future Forum,” circular economy courses, and energy-saving in building and air conditioning. In addition, the Office of Continuing Education offers 30 courses related to energy efficiency and clean energy, allowing students to learn how to effectively utilize energy and enhance management skills.

Research Centers and Technology Development

National Taipei University of Technology has established the “Center for Cleanroom Technology Research,” which focuses on the fields of semiconductor manufacturing equipment, air conditioning and air quality management, and energy-saving design. The University has also established the “Research Center of Energy Conservation (RCEC) for New Generation of Residential, Commercial, and Industrial Sectors” integrating research resources from areas such as residential and commercial energy-saving technologies, energy monitoring, and green building, to address future energy-saving challenges.

In August 2022, the University established the “Research Center of Offshore Wind Power Engineering,” dedicated to the R&D and validation of offshore wind power technology, and collaborates with the government and enterprises to promote domestic green energy infrastructure.

International Cooperation and Technology Exchange

National Taipei University of Technology actively participates in international energy conferences. In 2023, the University hosted the “2023 8th Taipei Building Show” and the “2023 4th International Conference on Nanomaterials and Advanced Composites.” Assistant Professor Lee Wei-Hao presented his research on energy-saving technologies at the conference and was awarded the Best Paper Award. Through these conferences, the University exchanges ideas with international scholars, gaining the latest information on clean energy and energy-saving technologies, providing valuable reference for the formulation of related policies by the government. ◦



Startups and Low-carbon Innovation

The University supports the development of low-carbon and sustainable energy technologies by startups. Several representative companies include:

- **Luna-Vitas Inc.** : Providing carbon neutrality and energy storage services for RE100 multinational companies.
- **Aofeng Composites Corp.** : Promoting the recycling of carbon fiber composite materials to foster sustainable development.
- **Higee Tech Co., Ltd.** : Developing eco-friendly green products and bio-based oils, emphasizing biodegradability, and supporting the circular economy and carbon neutrality.
- **He Da Sustainable Technology Co., Ltd.** : Committed to developing green smart cold chain technology, supporting energy conservation and carbon reduction, and aligning with the development trends of e-commerce logistics.



SDG 8

Decent Work and Economic Growth

Staff Benefit and Labor Policy of National Taipei University of Technology

Salary Payment and Basic Protection

National Taipei University of Technology faculty and staff receive remuneration based on different regulations, including the “Teacher Remuneration Act,” the “Public Functionaries Remuneration Act,” and the “Contractual Staff Salary Scale.” The salaries outlined in these regulations is sufficient to support the basic livelihood and stability of faculty and staff.

Labor–Management Meetings and Exchanges Between the Two Parties

The University holds labor–management meetings every three months, in accordance with the “Labor Standards Act” and the “Regulations for Implementing Labor–Management Meeting.” Both labor and management appoint one representative each to co-chair the meetings, promoting the exchange of opinions and achieving a win-win result.

Management representatives : 8 persons designated by the Principal.

Labor representatives : 8 employees (including women and foreign employees) elected through anonymous voting.



🔄 Statement from the University 🔄

Gender Equality and Non-discrimination Policy

The University is committed to maintaining a fair, just, and inclusive working environment, and strictly prohibits any form of discrimination, including but not limited to discrimination based on religion, gender, age, and other factors. The University is committed to complying with relevant legal regulations and has established internal policies to ensure that all faculty and staff enjoy equal rights and employment opportunities.

At the same time, the University firmly opposes forced labor, modern slavery, human trafficking, and the use of child labor. It is committed to complying with international labor standards, ensuring that all employees can work in a free and safe environment. We emphasize the values of diversity and inclusion, believing that every employee should grow and develop in an environment that is respectful, non-discriminatory, and free from exploitation.

In the future, the University will continue to promote the implementation of anti-discrimination and anti-exploitation policies. Through various educational and advocacy activities, it aims to raise awareness among all faculty and staff about equality, respect, and labor rights, ensuring that the workplace becomes a safe space where everyone can fully realize their potential.



Overtime Work Regulations

According to the “Overtime Guidelines for Faculty and Staff of National Taipei University of Technology” and the “Work Regulations for Contract Employees of National Taipei University of Technology,” each employee’s overtime should not exceed 4 hours per day and 20 or 46 hours per month. Employees are also entitled to apply for overtime pay or compensatory time off.

Outsourced Labor and Rights Protection

Since May 13, 2011, the University has outsourced restroom and building cleaning services. The awarded contractor must ensure the protection of its employees’ rights in accordance with the “Labor Standards Act.” The 2023 contract stipulates that the salary of cleaning staff must be at least NTD 30,000, which is better than the requirements of the “Labor Standards Act.” If overtime is required, the contractor must pay overtime wages according to the legal regulations.

Faculty and Staff Grievance and Remedies

The University has established a grievance mechanism based on the “National Taipei University of Technology Teacher Appeal and Review Committee Organization and Review Guidelines” and the “National Taipei University of Technology Staff Appeal and Review Committee Establishment and Review Guidelines.” If faculty and staff are dissatisfied with working conditions or management, they may file a grievance in accordance with the law. In 2023, 0 grievance cases were filed.

Faculty and Staff Data and Expenditures

Item	Data
Number of employees (full-time equivalent in 2023)	1,641 employees
Total university expenditure (2023)	NTD 3,281,217,311
Number of employees with contracts of at least 24 months	1,170 employees

Gender Pay Equality Policy

The University, in accordance with the provisions of the “Gender Equality in Employment Act,” provides equal pay for work of equal value, regardless of gender or sexual orientation. However, based on legitimate reasons such as seniority, performance, and rewards or penalties, the University grants promotions or rewards to outstanding performers. Annual year-end evaluations are conducted, and employees may appeal the evaluation results.

Overview of Internships and Number of Students

Item	Data
Number of day school students (2023 academic year)	13,466 persons
Number of students with internships for more than one month	1,963 employees



SDG 9

Industry, Innovation and Infrastructure



National Taipei University of Technology is committed to promoting innovation and technology transfer, actively applying research outcomes to industries, and advancing university-generated intellectual property rights. These enterprises are all founded on the University’s intellectual property, have been operating for over three years, and remain active. According to recent data, the number of spin-off enterprises within the University has fluctuated annually:

Year	Number of university spin-off enterprises
2021	7
2022	6
2023	6

Research income per academic staff

The University’s research income primarily comes from three major academic categories: STEM, medicine, and arts and humanities/social sciences. These income support the academic research and development across different fields.

Academic category	Research income (NTD)
STEM	693,198,038
Medicine	17,283,184
Arts and Humanities/Social Sciences	39,343,119

Number of Academic Staff

These research income are closely related to the number of academic staff. According to data for 2023, the full-time equivalent (FTE) distribution of academic staff at National Taipei University of Technology across the three major academic categories is as follows:

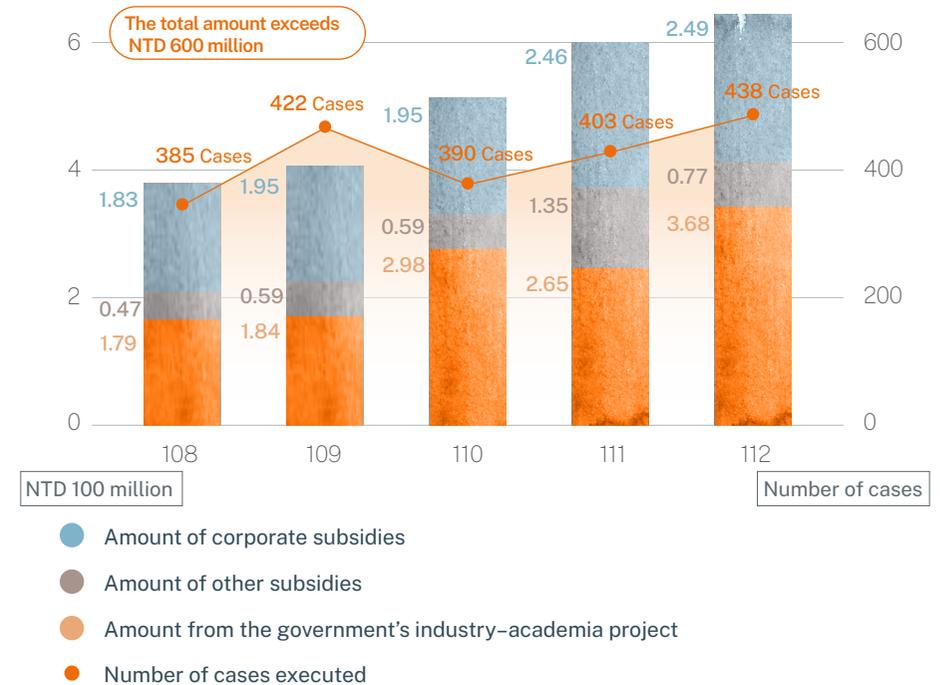
Academic category	Number of academic staff (full-time equivalent)
STEM	670
Medicine	0
Arts and Humanities/Social Sciences	495

Effectiveness of Industry–Academia Collaboration

Pragmatic and sustainable industry–academia R&D

To continuously enhance industry–academia capabilities, strengthen engagement with industries, and fulfill university social responsibility, enabling traditional industries to advance into the next era in alignment with international sustainable development goals. The University established the Frontier Institute for Science and Technology in 2021 to connect departments and create collaborative teams for securing large-scale industry–academia projects, making industry–academia collaboration and research more flexible. In 2022, it received approval to establish the “National Taipei University of Technology Innovation Frontier Institute of Research for Science and Technology” and obtained National Development Fund subsidies to support forward-looking technologies or equipment required for industrial development, fostering diversified collaborations with enterprises. The University serves as a bridge between technical and vocational colleges and industries, aligning with the Executive Yuan’s five innovative industries in green energy technology, the IoT, smart machinery, biomedicine, and the circular economy. Collaborations include partnerships with international enterprises such as TSMC, Qualcomm, and Hitachi ABB Power Grids. Additionally, the University co-established a research center with the U.S.-based Sunbird Inc., with a collaboration amount exceeding NTD 10 million. Faculty members have consecutively won the “National Award for Distinguished Contribution to Industry–Academia Cooperation” for five years, demonstrating the University’s practical technology R&D aligns closely with national industrial development trends and global sustainability goals.

Industry–academia collaboration



NTUT Frontier Technology Research Headquarters Inauguration Ceremony



Offshore Wind Power Technology Development and Engineering Technology Application Technical Exchange Industry-Academia Cooperation Memorandum of Understanding Signing Ceremony



Sunbird Joint Research Center Establishment Signing Ceremony

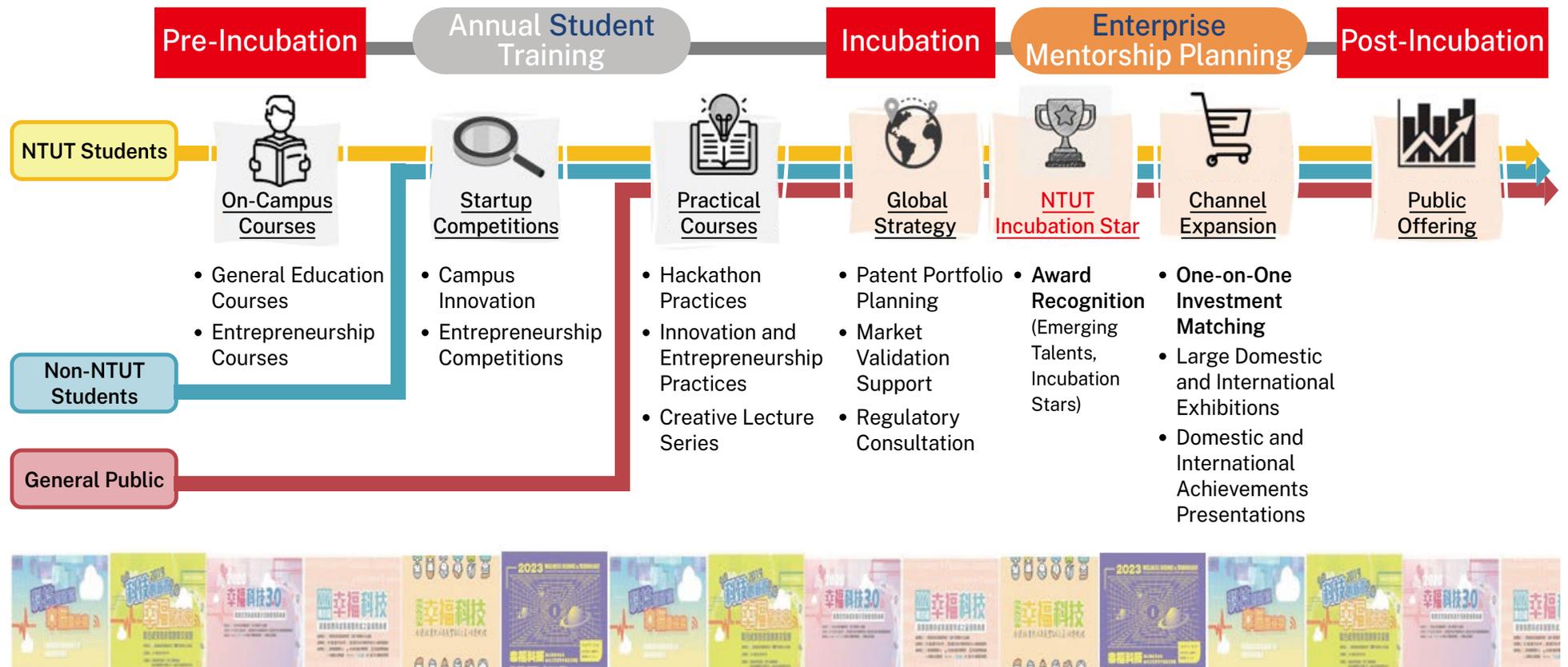
Strengthening innovation and entrepreneurship capacity

We provide guidance on technological entrepreneurship and regulatory applications, dedicating efforts to nurture startup teams, including small-and medium-sized enterprises and student groups. Through a comprehensive mentoring and cultivation mechanism, including pre-incubation (campus-based), incubation (enterprise-based), acceleration (post-incubation), and internationalization, the University has established evaluation and feedback systems. By implementing strategies focused on “professional specialization, productization of outcomes, patenting of technologies, technology transfer, and encouraging spin-off startups,” it has built a technical service hub integrating service industries. On average, the University nurtures 25 startups annually, leveraging various channels to introduce diverse resources, assisting startup teams in securing funding exceeding NTD 10 million. The pre-incubation phase features comprehensive planning, incorporating innovation and entrepreneurship as a mandatory component of general education to foster entrepreneurial spirit among students. Faculty members are invited to study at leading international universities, bringing back the latest innovation and entrepreneurship curricula and teaching methods to benefit students. Additionally, the University organizes an annual Happiness Technology Expo, providing a platform for innovative teams to exchange ideas and showcase their work, offering opportunities to secure angel funding.



2023 Happy Technology Expo

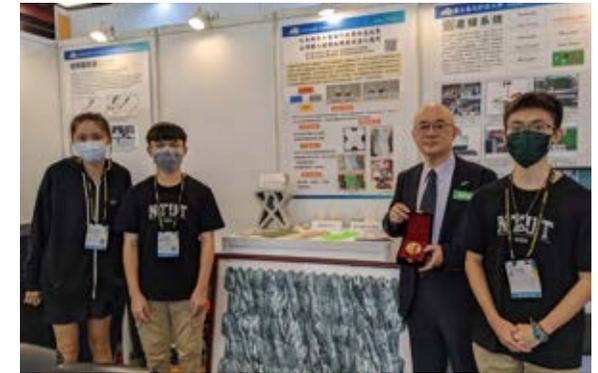
Establishing a Friendly Incubation Ecosystem - Creating NTUT's Exclusive All-in-One Development Model



Building NTUT's All-in-One Incubation Development Model

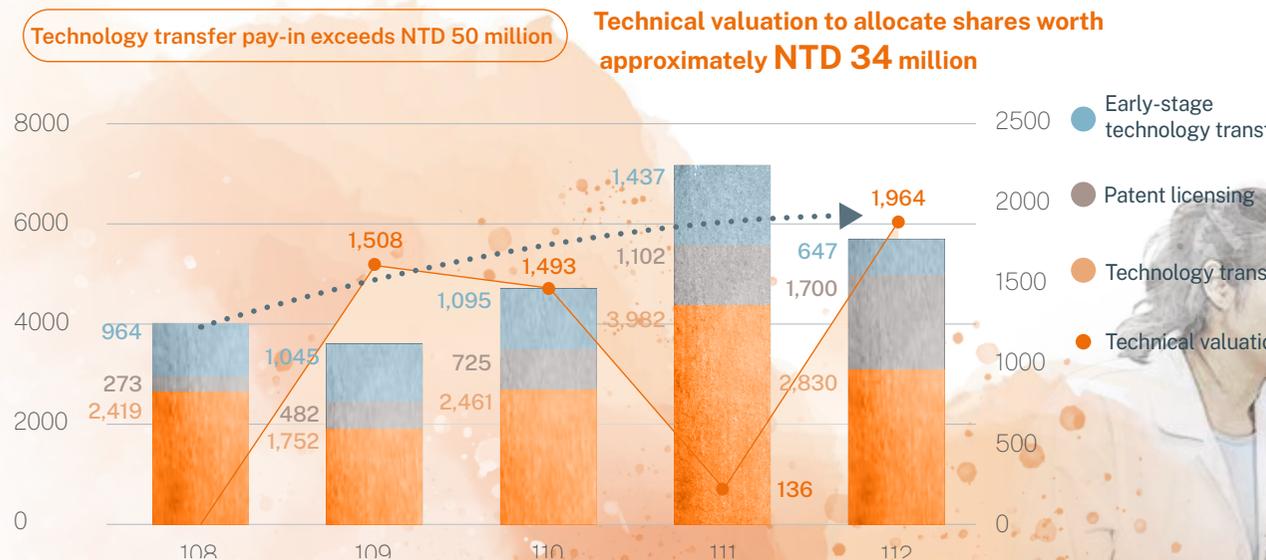
Technology Transfer Effectiveness

Through the establishment of a review committee and the engagement of internal and external experts, the University has implemented a robust review mechanism. By collaborating with intellectual property law firms to analyze market value and technology transfer benefits, the University has developed international patent portfolios, integrated cross-institutional research outcomes into patent families, and enhanced the commercial and legal strength of industrial R&D achievements. Faculty, researchers, and graduate students are actively encouraged to apply for international patents and participate in prominent global exhibitions, promoting the University’s research achievements and increasing motivation for patent application and dissemination. To date, five faculty members have established companies, and two are preparing to do so, collectively holding approximately 4.92 million technical shares valued at about NTD 33.8 million. In 2022, Professors Li Yeou-Fong and Chung Ming-An achieved remarkable success at the 2022 Invention Contest of the Taiwan Innotech Expo, earning gold and silver medals, respectively. In 2023, Professors Wang Tzyy-Jiann and Chung Ming-An continued this streak, securing gold and silver medals at the 2023 Taiwan Innotech Expo. Additionally, Professor Chung Ping-Hsuan from the Department of Interaction Design was honored with the 2023 FutureTech Award. These accomplishments underscore the University’s robust research capabilities.



Professor Lee You-Feng’s Innovation Technology Expo Invention Competition - Technology Transfer Award

Patent technology transfer



Promotion of Industry Exchanges

Established the “Frontier Institute for Science and Technology”

Establishing interdisciplinary, cross-domain, and international research units, partnering with top global universities such as MIT, PSU, UC, Berkeley, and UTA, as well as international companies like Sunbird, Delta, AUO, and Elan, to form research alliances. The initiative aims to attract industry-academia research talent, enhance research capabilities and outcomes, solidify the position of “practical academic excellence,” build a nurturing environment for technical and vocational talent development, and strengthen the implementation of “key technologies.” By establishing cooperative teams across departments to secure large-scale industry-academia projects, the University concentrates its research and industry-academia resources to introduce the latest academic R&D to local enterprises. This initiative supports the introduction of forward-looking technologies and equipment required for industry development, builds specialized laboratories, assists companies in securing government-funded large-scale projects, and nurtures practical and research-oriented talents, facilitating diversified collaborations with enterprises.



 Promotion of the New Taipei Industrial Park Project

Promote the New Taipei Industrial Park Project

The University promotes the Smart Manufacturing – Digital Transformation and Artificial Intelligence applications in the New Taipei Industrial Park, assisting manufacturers in establishing the concept of Industry 4.0. The university has established the “Smart Manufacturing Digital Transformation Professional Academic Team” to understand the needs and equipment of different factories. The team evaluates, integrates, and plans key



 Supporting New Taipei City Industrial Park

processes, conducts information and process audits, and provides technical consultation based on different automation equipment upgrade conditions to assist manufacturers in upgrading their factories for smart manufacturing. Additionally, the University will use large enterprises as models to replicate their successful strategies, driving upgrades for factories within the park. By introducing the concept of digital transformation to these companies, the goal is to improve existing operational models and ultimately achieve objectives such as reducing production and maintenance costs, as well as enhancing production efficiency. With the development strategy of “assisting industry leaders in driving forward-looking technology layout, connecting local industry clusters to promote innovative transformation synergies, and aligning with innovation and entrepreneurship trends to create emerging industry bases,” the University aims to expand education and advocacy related to digital transformation.

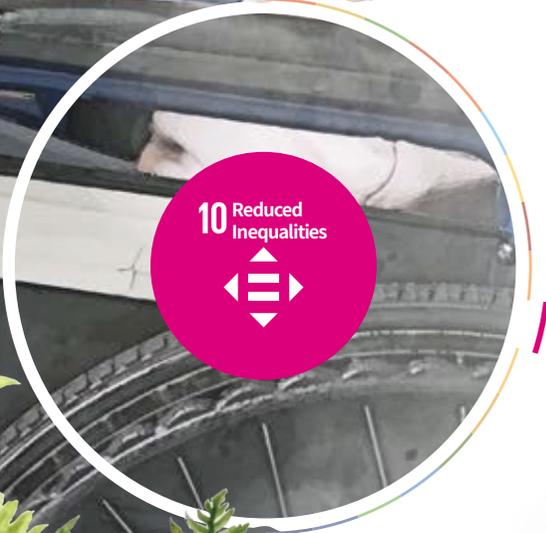
The university also organizes forums, seminars, talent cultivation courses, and vocational training activities in industrial parks to provide the public with opportunities to enhance their workplace skills. In the past three years, the University has organized over 30 seminars, and annually conducts 2 to 4 industrial park talent training courses, each lasting 6 to 12 hours.

Sustainable Technology Practices

With the industry’s strong demand for talent and the need to effectively enhance university research and development, Taipei Tech takes on the responsibility of being a cradle for entrepreneurs and a solid talent cultivation base for technical R&D. The University has established numerous credit programs, curricula, and research centers related to forward-looking technologies and sustainable development issues, and spares no effort in the teaching and R&D of fields such as sustainable energy, artificial intelligence, semiconductor technology, disaster prevention, green building, and biomedical materials. In recent years, the University has broken through traditional academic boundaries by establishing the Frontier Institute for Science and Technology, forging extensive collaborations with enterprises, and actively promoting the involvement of high-quality industry resources and talent in university R&D. This initiative aims to jointly cultivate advanced technology talent, strengthen the competitiveness of key national industries, and respond to the Sustainable Development Goals (SDGs). By leveraging the expertise of a technological university, it contributes to sustainable development and mutual prosperity of society.

SDG 10

Reduced Inequalities



Enrollment Status of Freshmen and Underprivileged Students

The University actively provides equal admission opportunities for students from diverse backgrounds, with a particular focus on supporting first-generation college students, international students from developing countries, and underprivileged groups, ensuring educational equity.

- Number of first-generation college students : **974**
- Number of international students from developing countries : **303**



Percentage of students with disabilities **0.33%**

- Number of -students with disabilities : **44**



In 2023, the number of spots for economically underprivileged groups in the undergraduate admissions

- 65** Indigenous ppl
- 19** Economically underprivileged
- 16** Students from offshore islands
- 5** Students with disabilities

Total number of students admitted from economically underprivileged groups in 2023 : **923**

Ratio of employees with disabilities and underprivileged employees

The University places special emphasis on the employment of individuals with disabilities and indigenous people in its hiring policies. It meets or exceeds the targets set by law to ensure workplace diversity.



Number of employees with disabilities: **63**



Number of indigenous employees: **10**



Number of Indigenous peoples and employees with disabilities

Category	2021		2022		2023	
	Indigenous peoples	People with disabilities	Indigenous peoples	People with disabilities	Indigenous peoples	People with disabilities
Should employ	0	61	0	59	0	59
Employed	9	69	9	62	7	63
Vacancies	0	0	0	0	0	0
Employment rate	-	113%	-	105%	-	106%

Proportion of full-time foreign teachers

Category	2021 academic year		2022 academic year		2023 academic year	
	Number of students	Percentage (%)	Number of students	Percentage (%)	Number of students	Percentage (%)
Foreign full-time teacher	7	1.54%	9	1.91%	10	2.06%
Foreign part-time teacher	14	3.02%	11	2.61%	11	3.14%
Total	21	2.29%	20	2.24%	21	2.51%

Non-discrimination Policy and Human Rights Protection

The University enforces a non-discrimination policy in accordance with laws such as the “Gender Equality in Employment Act” and the “Employment Service Act,” ensuring that faculty and staff are not subjected to unfair treatment based on gender, sexual orientation, race, religion, or age.



Faculty Selection Policy

- The University ensures that recruitment, evaluation, promotion, and salary distribution for faculty and staff are not influenced by gender, race, religion, sexual orientation, or age.
- All faculty and staff receive equal pay for equal work, and annual performance evaluations are conducted fairly, with opportunities for rewards for outstanding performance.



Ensure Gender Pay Equality

- In accordance with the “Gender Equality in Employment Act,” the University provides equal pay based on job value, ensuring no differences in remuneration based on gender or sexual orientation. Additionally, outstanding performers are rewarded.



Friendly Workplace

- The University strictly adheres to overtime regulations, ensuring that no individual works more than 4 hours of overtime per day and 20 hours per month. After overtime, employees can apply for overtime pay or compensatory time off.
- The University offers flexible working hours for its faculty and staff, allowing them to begin their workday between 8 and 9 a.m., and to finish between 5 and 6 p.m. Additionally, it provides parental leave and paternity leave in accordance with the regulations set by the “Gender Equality in Employment Act.”
- The University collaborates with childcare institutions to offer a variety of daycare and after-school services for its faculty and staff. Additionally, it provides breastfeeding rooms to create a working environment that is supportive of parenthood and friendly toward employees with caregiving responsibilities.



Diversity and Inclusion in the Workplace

- According to the “People with Disabilities Rights Protection Act,” the University not only meets the minimum hiring standards, but also employs an excessive amount of people with disabilities.
- In accordance with the “Indigenous Peoples Employment Rights Protection Act,” the University has hired 7 indigenous people and is committed to maintaining diversity in the workplace.

Measures to Support Underprivileged Students

To ensure that students from underprivileged groups can adapt to university life smoothly, the University has launched diverse support services and barrier-free facilities to ensure an equal learning environment for students.



Jade Carving Program

Offers **10** counseling and assistance mechanisms, disbursing a total of **NTD 9,801,670** in scholarships in 2023, benefiting **422** students.



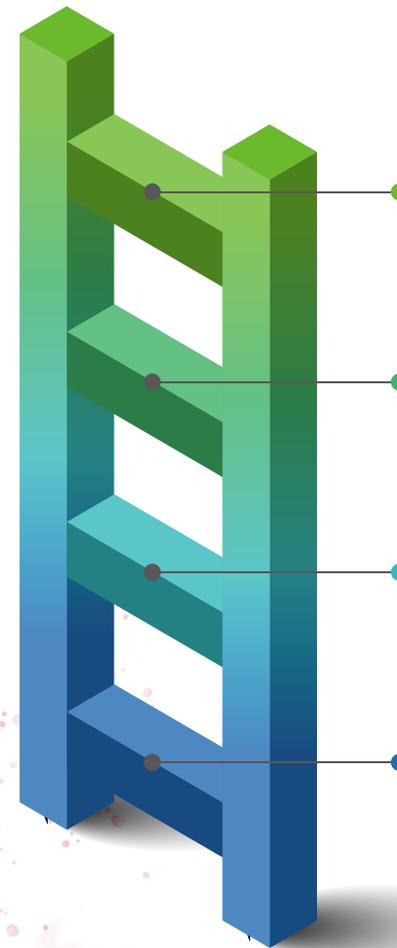
Barrier-free facilities

The University has set up barrier-free facilities in all campus buildings and continues to upgrade old equipment to meet the needs of students with disabilities.



On-campus Communication and Employee Support

The University places a high priority on the voices of its students and staff, offering multiple communication channels and support services to ensure their needs and concerns are addressed effectively.



Employee Assistance Program (EAP)

Each year, the University conducts a needs survey and provides support activities tailored to employees' needs in areas such as work, life, and health. The University also offers dedicated psychological counseling services to safeguard the mental well-being of its faculty and staff.

Labor-Management Meetings

Regularly holds labor-management meetings to promote communication between both parties, enhance cooperation, and reduce conflicts or opposition.

End-of-semester Forum

Each semester, an end-of-semester forum is held where the principal, faculty, and staff engage in thorough communication to understand the campus's needs and demands.

Principal's Appointment

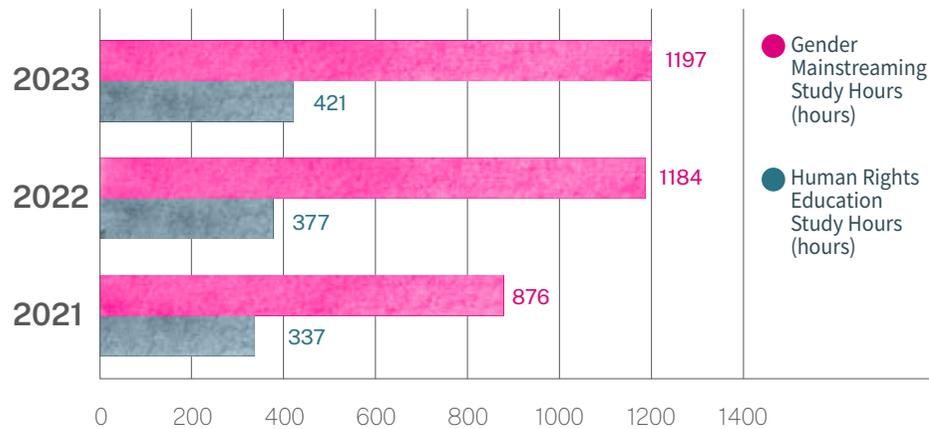
Since 2019, regular discussions have been held with the student government to gain a deeper understanding of students' thoughts and opinions, serving as a reference for improving the University's policies.

Overall satisfaction with employee assistance programs

Year	Very satisfied	Satisfied	Acceptable	Dissatisfied	Very dissatisfied
2022	54%	22%	17%	4%	3%
2023	50%	31%	16%	2%	1%

Human Rights and Gender Equality Education

The University encourages faculty and staff to participate in human rights and gender equality education courses. In the past three years, a total of 4,392 hours of learning have been completed, enhancing the awareness of faculty and staff on human rights and equality. This also demonstrates the University’s efforts to reduce inequality through non-discrimination policies, a friendly workplace environment, and various measures supporting underprivileged groups, actively promoting the fair distribution of educational opportunities and social resources.



SDG 11

Sustainable Cities and Communities

National Taipei University of Technology's Humanities and Campus Features

Preservation of School History and Cultural Heritage



The Red House: The Red House on the campus of Taipei Tech is a designated historical site in Taipei City. It is open for free visits on regular days, with guided tours available through reservations. In 2023, the Red House on the campus saw a total of 12,717 visitors, as it was incorporated into various events such as the freshman university orientation, graduation ceremonies, alumni meetings, and visits from foreign guests.



The former school history museum was dismantled at the end of 2022 and is set to reopen in November 2024 at the Yida Chuan Hall. The new museum will showcase the century-long history and distinctive features of Taipei Tech.



The building was registered as a historical site in 2018, and is currently undergoing restoration work. It is expected to reopen in November 2024.

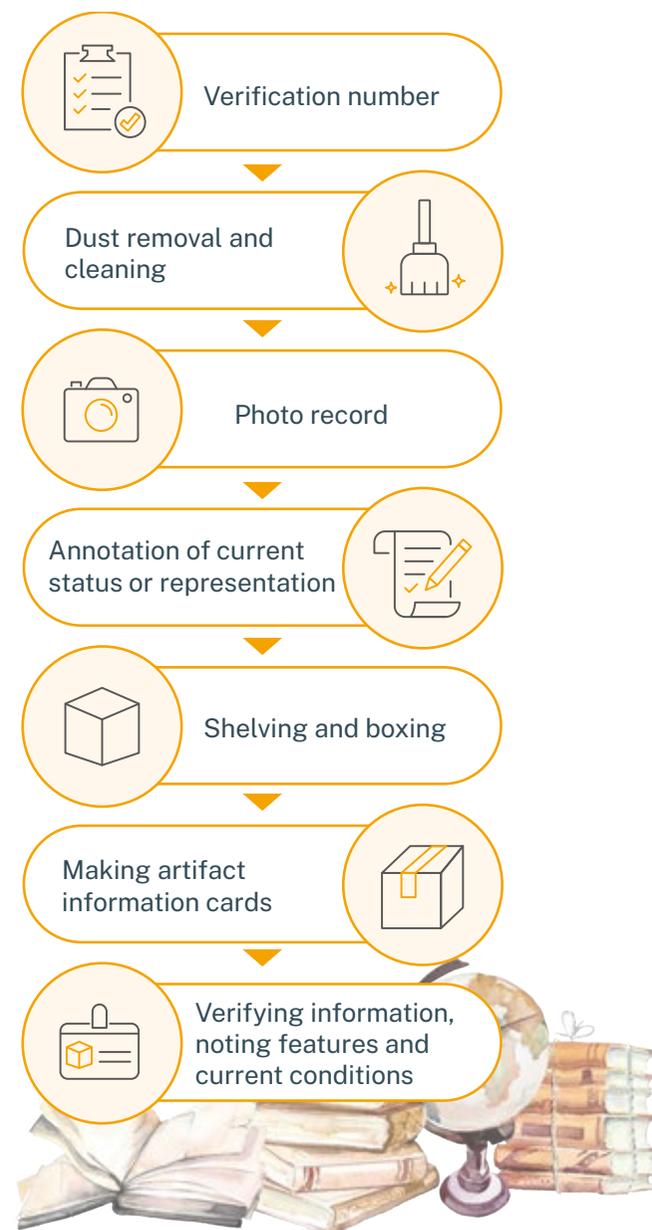


Special Collections Room

According to the “National Taipei University of Technology School History and Artifacts Collection Management Guidelines,” the University has a collection of approximately 6,583 artifacts, categorized as follows:

Collection Code	Category Name	Description of Content	Number of items
A	Teaching Tools Artifacts (items)	Teaching instruments and models across various disciplines, as well as tools created by teachers for supplementary teaching demonstrations	57
B	Books and Documents (copies)	Various teaching materials, reference books, teaching handouts, teacher’s guides, and teaching reference books	218
C	Commemorative Medals	Various intercollegiate honorary medals, trophies, plaques, medals, commemorative cups, etc.	202
D	Emblem Models	School flags, school plaques, school emblems, monument stones, rubbings, ceremonial items, and framed documents from various periods since the founding of the school, as well as models of campus buildings	84
E	Historical documents (sheets)	Certificates and brief introductions to developmental materials from various periods	241
F	Photographs and Pictures (pieces)	Campus illustrations, photographs, and slides from various periods since the school’s establishment	5,607
G	Graduation Albums	Graduation albums from 1934 to present	160
Z	Others	Objects of historical or commemorative significance that reflect the University’s development, construction, cultural, and sports activities	14
	Total		6,583

Historical Museum Artifact Inventory Process





The stretching test machine (now known as the “tensile testing machine”) was an important experimental device shared by the Civil Engineering and Mechanical Engineering Departments at the University during the Japanese occupation era. It is currently displayed in the atrium of the first floor of Sixth Academic Building, serving as a testament to the history of industrial education at the University.



During visits by foreign guests, students provide explanations of the history and architecture of the Red House.



Teachers and students of King Mongkut's Institute of Technology Ladkrabang visited the Red House



Library Services

- Opening to the public :

The Library allows 30 external visitors per day, and in 2023, the total number of external visitors to the library reached 25,156, showing a significant increase compared to 13,421 visitors in 2022.

- Guided tours in the museum:

In 2023, a total of 1,649 first-year students participated in the guided tours, with an additional two groups (16 people) applying for the tours.

- Interlibrary collaboration:

The Library is a member of the Interlibrary Cooperation Association and has been honored with the Interlibrary Cooperation Performance Excellence Award for five consecutive years (2019 to 2023). In 2023, it processed 1,408 interlibrary cooperation applications and was also awarded the Enthusiastic Service Award by the Interlibrary Cooperation Professional Development Committee.

- Interlibrary Cooperation Service – 2023 Performance Excellence Award



Campus Access and Infrastructure



The signboard and interior decoration of Yida Chuan Hall of History (expected to open in November 2024)



Interior Space Planning of Yida Chuan Hall – Welcome Area in the First Exhibition Room



Interior Space Planning of Yida Chuan Hall – Second Exhibition Room Permanent Exhibition Area of University History Museum

Open space

Except for the Zhongxiao and Xinsheng gates, the campus does not have high walls. The public spaces and green areas are open to the public.

Student motorcycle parking spaces

There are 970 motorcycle parking spaces for day school students.

Convenient transportation

The University encourages faculty and students to use public transportation. It provides free bicycle parking and electric vehicle charging stations on campus, promoting sustainable transportation options.

Pedestrian priority

Except for specific areas and special vehicles, the campus is primarily pedestrian-friendly, encouraging walking as the main mode of transportation.

Music and Cultural Events

Music League Clubs

There are 8 music-related clubs on campus, each of which organizes 3 to 4 public performances per semester on average. In 2024, more than 30 public art performances are expected to be held.

National Taipei University of Technology Student Club Public Humanities and Arts Performances

Performances by the clubs in 2023

 Orchestra Club **4** sessions



 NTUT Ciao Band **6** sessions



 Yuhong Traditional Music Club **4** sessions



 NTUT Beatbox Club **2** sessions



 Tsai Yin Guitar Club **14** sessions



 NTUT Piano Club **2** sessions



 NTUT A Cappella Club **2** sessions



 NTUT Hip-Pop Club **2** sessions



Total number of performances in 2023 **36** sessions

Art and Cultural Expenditures Inside and Outside the University in 2023

Total University Expenditure

NTD 3,281,217,311

Arts and Heritage Expenditure

NTD 11,032,350

University's Historical Research and Labor Literature Preservation

- In October 2023, Associate Professor Cheng Yi-Wen from the General Education Center and Kaohsiung Museum of Labor jointly launched the “Photography Exhibition of the Last Generation of Miners,” which preserved and presented the literature and history of coal miners in Taiwan through five sub-themes.
- Cultural Heritage Research: NTUT is dedicated to the research of local cultural heritage. Between 2019 and 2023, it carried out 50 related projects and assisted in promoting the development of Taiwan's cultural and creative industries.

Sustainable Transportation and Campus Life

- **Dormitory :**
Affordable accommodation is provided at the East Campus, New Taipei Dormitory, and Nangang Dormitory, ensuring that students can afford the cost.
Transportation sustainability:
Promoting pedestrian priority, with designated pedestrian pathways, supporting the campus's carbon reduction goals.

Government Cooperation and Housing Justice

- **Participation in government committees:**
Teachers at Taipei Tech participate in urban design and land development review committees at both central and local government levels, promoting housing justice.
- **Affordable housing projects:**
Between 2020 and 2024, NTUT assisted in the implementation of 29 projects related to affordable housing in collaboration with local governments.

Environmental Protection (Environmental Greening and Beautification)

- **Campus environment:** Since its establishment, NTUT has been committed to campus maintenance, ensuring that no land is left abandoned or contaminated.

SDG 12

Responsible Consumption and Production

Food Safety and Environmental Hygiene

Catering safety management

According to the “School Health Act” and the “Act Governing Food Safety and Sanitation,” NTUT specifies in its contracts with food service providers that food and materials must meet food safety standards to ensure the health and well-being of students and staff.



Food Safety First



🌱 Statement from the University 🌱

Sustainable Policy Statement for Ethical Procurement and Handling of Hazardous Materials

The University is committed to promoting social responsibility and sustainable development, and implements ethical and environmental principles in its operations. To this end, the University has established an ethical procurement policy for food and supplies, ensuring that our procurement decisions align with ethical standards, prioritizing suppliers and products that are environmentally friendly, support fair trade, and uphold labor rights.

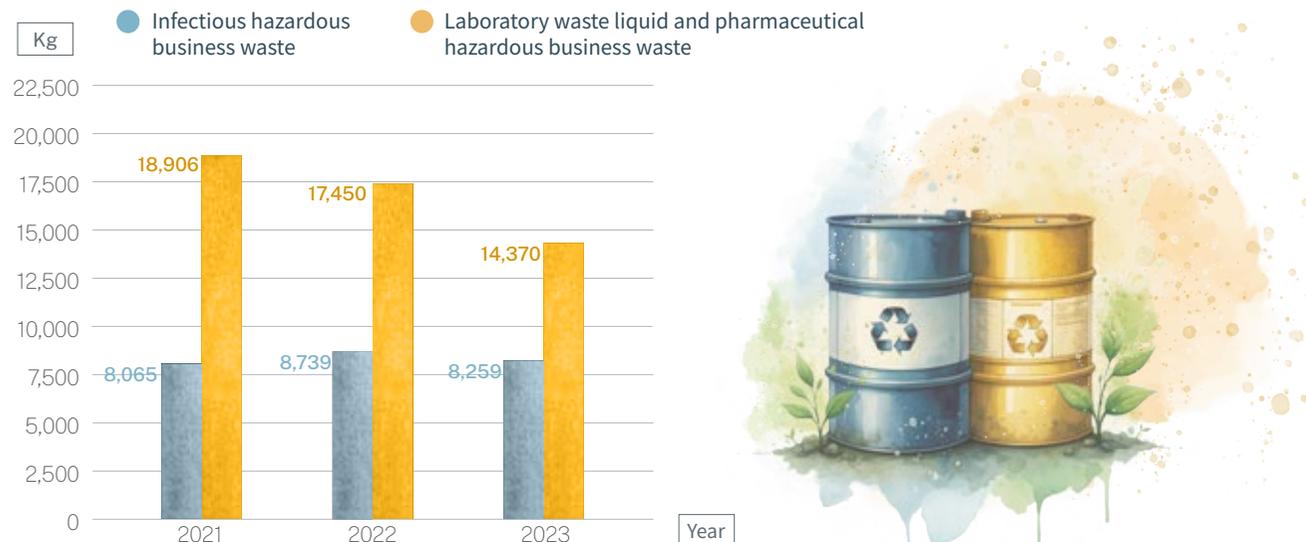
At the same time, to ensure campus safety and environmental health, the University has also established a waste disposal policy and related procedures covering hazardous materials. These policies ensure that hazardous materials are handled and disposed of according to strict safety and environmental standards, minimizing risks to both the environment and the campus community.

In the future, the University will continue to improve these policies, ensuring that, through institutionalized processes and practical operations, the use and management of resources balance ethical responsibility with environmental protection, providing a safer, healthier, and more sustainable campus environment for all faculty and students.

Hazardous Waste Management

The University manages hazardous waste by regularly collecting and recycling laboratory waste, including waste liquids, discarded chemicals, and infectious waste. This is done in accordance with the University’s “National Taipei University of Technology Laboratory Waste Disposal Process” and by commissioning an approved public or private waste disposal agency. Due to the large number of laboratories, a 33 m² waste liquid storage room has been established to effectively manage waste liquids and prevent environmental contamination. The room is equipped with flammable gas detectors, gas dispersion collection facilities, and activated carbon waste gas treatment systems to effectively collect gases released during the storage of waste liquids. These gases are adsorbed by activated carbon and then released into the atmosphere. The equipment is regularly monitored and maintained every year to ensure proper environmental maintenance and protection.

Statistics on the hazardous waste disposal and treatment within the University for 2022 to 2023 are shown in the figure.



The amount of laboratory waste liquids and discarded pharmaceuticals

disposed of decreased from 18,906 kg in 2021 to 14,370 kg in 2023, indicating the effectiveness of the University’s chemical reduction efforts.

indicating the effectiveness of the University’s chemical reduction efforts. In addition, the amount of infectious waste disposal has remained below 8,800 kg over the past three years.

This fluctuation is attributed to the annual retirement of faculty members, which leads to the need to clean laboratory spaces, or when faculty members change research directions, causing variations in the amount of infectious waste treated.

Image of waste liquid storage room



Garbage Disposal and Resource Recycling

● No Littering Policy :

NTUT has implemented a “No Littering Policy,” ensuring that all waste is collected by a waste disposal company and incinerated at a waste incineration plant, with no landfill disposal.

● Resource recycling :

The recyclable materials are collected daily by the campus maintenance team and student workers, then transferred to private recycling companies for processing.

Year	2021	2022	2023
General garbage (tons)	480	540	570
Resource recycling including kitchen waste (tons)	20	20	25

The removal or reuse of construction waste

To effectively reduce the environmental impact of construction waste, the excavated soil and rock from construction projects are transported to Taipei Port for resource recycling. In 2021, during the construction of Chengpu Building (6,000 m³), the excavated soil and rock were all transported to Taipei Port for reuse. The planned new construction project, “Banyan Garden Landscape Improvement Project,” is expected to begin excavation in May 2024. The project is estimated to produce 420 m³ of soil and rock, of which 245 m³ will be balanced within the site, leaving 175 m³ of soil and rock. The “Executive and Staff Dormitory New Construction Project” is currently undergoing a public bidding process, with construction expected to start in September 2024. The project is estimated to produce 2,917 m³ of soil and rock, with 494 m³ to be balanced within the site. The remaining 2,423 m³ of soil and rock will be transported to Taipei Port for fill operations.

Plastic Reduction Policy and Restrictions on the Use of Disposable Products

● Plastic reduction and restrictions on the use of disposable products :

NTUT prohibits the use of plastic bags, melamine, disposable tableware, and disposable straws on campus. This regulation is included in the contracts between the University and its contractors.

● Prohibition of melamine and plastic straws :

According to the implementation guidelines of the Taipei City Government, the use of disposable and melamine tableware is prohibited in campus restaurants. Additionally, the use of disposable plastic straws is restricted in accordance with relevant regulations.

Waste Recycling and Reduction Measures

● Garbage sorting, recycling and tracking :

The University has designated personnel responsible for the classification of waste and tracking the sources of garbage, ensuring the effective implementation of waste reduction and recycling.

● Percentage of waste generated and recycled :



Social Responsibility and Sustainability Report

The University regularly publishes an Annual Social Responsibility Report and a Sustainability Report, explaining the University's performance in social responsibility and sustainable development. These reports comprehensively disclose the University's efforts and social contributions under the vision of sustainable development, serving as a tool for communication with stakeholders and self-management, evaluation, and continuous improvement.

Social Responsibility Report :



 2021 Annual Social Responsibility Report



 2022 Annual Social Responsibility Report



 2023 Annual Social Responsibility Report

Sustainability Report :



 2021 Sustainability Report



 2022 Sustainability Report



 2023 Sustainability Report

SDG 13

Climate Action



National Taipei University of Technology is committed to promoting climate action to address the challenges posed by climate change. Despite limited geographical space on the main campus, the University actively promotes the installation of rooftop solar power systems to achieve a low-carbon energy transition. At the same time, the University continues to monitor and calculate the usage of low-carbon energy.

🌱 Low-Carbon Energy Data Tracking

Total energy consumption in 2023

Low-carbon energy



Climate Change-related Courses

National Taipei University of Technology offers climate change-related courses in many departments, including the Department of Civil Engineering, Department of Industrial Engineering and Management, Department of Architecture, Department of Energy and Refrigerating Air-Conditioning Engineering, Department of Cultural Vocation Development, Chemical Engineering & Biotechnology Department, and Institute of Environmental Engineering and Management. The courses cover topics such as:

- Environmental Ecology
- Sustainable Engineering and Management
- Net-Zero Construction
- Indoor Air Quality
- Green Energy Industry Policy and Economic Analysis

Additionally, the University's general education program includes courses on ecology and environmental protection, as well as meteorology and daily life, providing students with a comprehensive understanding of climate change issues.

Smart Rain Gardens and Cooling and Water Retention Benefits

The Water Environment Research Center of National Taipei University of Technology, in collaboration with the Climate Change Administration of the Ministry of Environment, established 16 multifunctional smart rain garden demonstration sites across Taiwan from 2019 to 2022. The average temperature reduction reached 2°C, and the water retention rate achieved 97.1%. These rain gardens demonstrate effective urban cooling and water resource management functions.



Rain Garden Resilience and Adaptation Facilities Exchange Meeting

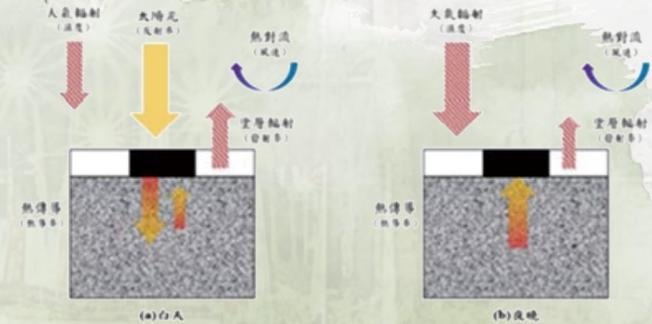
Green Building and Permeable Pavement Applications

The campus has adopted facilities and designs that meet green building standards and has fully implemented green building technologies in newly constructed buildings, promoting energy conservation and carbon reduction. Through permeable pavement technology, the University has effectively enhanced rainwater infiltration and drainage efficiency, reducing surface water runoff and further improving the campus' s climate adaptability.



Sustainable and Eco-Friendly Green Technology: Synthesizing Inorganic Polymer Materials from Textile Dyeing and Finishing Sludge

Inorganic Polymer Heat Dissipation Coating Technology



Heat Flux Variation Diagram



NTUT is the First University in Taiwan to Extensively Implement Permeable Pavement



Green Building Shell Energy-Saving and Heat Insulation

Chilled Water System and Energy-saving Measures

The University has upgraded the chilled water system, an energy-efficient cooling system that can more effectively regulate the temperature of campus buildings, reduce energy consumption, and achieve both cooling and energy-saving goals.

Offshore Wind Power and Cross-disciplinary Collaboration

The University organizes at least 5 seminars or training programs related to the climate change crisis each year, covering topics such as offshore wind turbine technology research and water environment forums. The University has also partnered with Ceci Engineering Consultants to promote an offshore wind power cross-disciplinary microprogram and established the “Research Center of Offshore Wind Power Engineering” to develop local wind power technologies.

International Cooperation and Establishment of Research Centers

National Taipei University of Technology has established the “Energy Research Center” and the “Research Center of Offshore Wind Power Engineering” to align with the government’s energy policies, promote research on offshore wind power and green energy materials, and collaborate with international institutions, including the University of Illinois and the Technical University of Denmark. The University has partnered with IBIS Power of the Netherlands for technical exchanges on the modular wind-solar power generation system, PowerNEST, and completed 30 industry-academia collaboration projects in 2023, with a total value of NTD 32.61 million.

Climate Change Actions and Net-Zero Targets

In 2024, the school established the “Net-Zero Carbon Emission and Corporate Sustainability Center” to assist the government and enterprises in promoting net-zero transformation and circular economy development. The center also aims to cultivate professional talent and plans to promote collaboration with businesses and the government to implement ESG sustainable development.



Statement from the University

Promotion of GHG Inventory and the 2048 Carbon Neutrality Goal Statement

To actively address climate change and promote sustainable development, the University has officially implemented GHG inventory since 2022, using that year as the baseline. Our inventory scope covers Scope 1 (direct emissions), Scope 2 (indirect emissions from energy), and indirect emissions from employee commuting under Scope 3. Through strict data monitoring and analysis, the University is committed to understanding and continuously reducing the impact of GHG emissions on the environment.

The University has set a long-term goal of achieving carbon neutrality by 2048 and will continue to promote relevant carbon reduction measures and initiatives to ensure that, while advancing education and research, we can create a healthier and more sustainable planet for future generations. We firmly believe that through concrete actions and all-round collaboration, the commitment to carbon neutrality can be fulfilled, contributing to global climate action.

Climate Risk and Opportunity Management

Based on the recommendations of the “Task Force on Climate-related Financial Disclosures (TCFD),” the University has developed a climate change response strategy focusing on four core aspects, including governance, strategy, risk management, and metrics. By identifying climate change risks, formulating response measures, and aligning with international sustainability standards such as GRI and STARS, the University has set quantitative and qualitative goals to ensure the achievement of its long-term carbon neutrality objective. (Refer to page 40 of our 2023 Sustainability Report for details)

National Taipei University of Technology addresses climate change risks through cross-disciplinary collaboration, the promotion of low-carbon energy, and the application of green building technologies, steadily advancing toward the net-zero carbon emissions goal while making concrete contributions to sustainable development.



SDG 14

Life Below Water

Drainage Guidelines and Water Quality Standards

Assisted in revising the “Surface Water Classification and Water Quality Standards” to enhance the management of river water bodies, ensuring the protection of ecosystems, wildlife, and human health.

SWMM

SWMM is a dynamic rainfall-runoff simulation model used for single-event or long-term continuous simulations of runoff quantity and water quality in urban and suburban watersheds. It is now one of the plug-ins under BASINS.



In utilizing green infrastructure as LID controls, SWMM can simulate eight different types of common green infrastructure (see figure):



Good Water Environmental Management Practices

Establishing national reservoir watershed health check indicators, covering sediment and water quality indicators, which serve as important references for maintaining reservoir water quality.



Improving the “Environmental Impact Assessment River Water Quality Assessment Model Technical Specifications” seminar

Action Plan to Reduce Plastic Waste

The campus has established dining contract regulations, requiring vendors to comply with the plastic reduction policy, with penalties for non-compliance. Catering businesses are encouraged to switch to reusable tableware to significantly reduce the use of disposable tableware and plastic waste. Posters are displayed to remind vendors and customers to cooperate with the plastic reduction initiative.

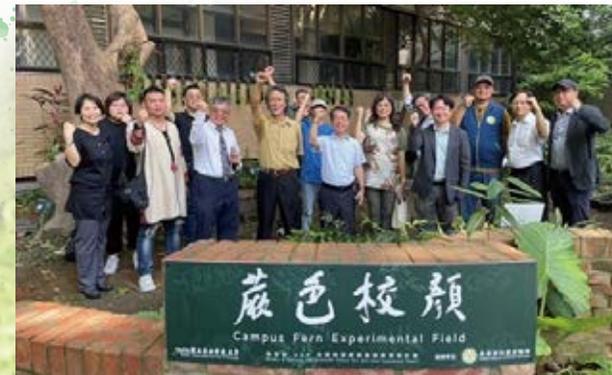


SDG 15

Life on Land

Taipei Tech has established the country's first fern experimental sustainable campus

The development history of the ecological campus at National Taipei University of Technology dates back to the early 1980s. The campus has consistently upheld the concept of environmental sustainability and is dedicated to promoting landscape development. In recent years, the Department of Architecture has been more actively promoting healthy building and ecological campus education, while developing campus landscapes with local characteristics. On the eve of World Earth Day, through a collaboration between the College of Design and the Department of Architecture and the Taiwan Forestry Research Institute of the Ministry of Agriculture, the first fern experimental site in Taiwan was established on campus on April 20, 2024.





Professor Lin Ching-Chun led students of the Department of Architecture in using discarded wooden pallets to create planting boxes.



Soil mixing learning experience of students of Department of Architecture at Taipei Tech



Dr. Huang Yao-Mou from the Forestry Research Institute taught fern planting techniques



SDG 16

Peace, Justice and Strong Institutions

Student Self-governance and Promotion of the Spirit of Democracy

National Taipei University of Technology (hereinafter referred to as NTUT) established the “Student Union” in 1994 and the “Student Association” in 1996, aiming to protect students’ rights to express their opinions in university governance. According to the University’s organizational regulations, the participation rights of student representatives are ensured, allowing them to attend various university-level decision-making meetings, including the selection of the president, administrative meetings, academic affairs meetings, and student affairs meetings. In addition, NTUT supports students in applying to establish self-governing groups. Currently, 67 student clubs and 27 department associations have been established, providing students with diverse platforms for participation.



Combining Character Education with the SDGs

To promote character education, NTUT Library publishes the bi-monthly magazine NTUT Youth, encouraging students to submit articles and express their opinions on various character-related topics. In recent years, to align with the SDGs goals, NTUT has incorporated SDGs-related topics, such as the “Environmental Sustainability” topic added in the July 2023 issue, aiming to enhance students’ participation in sustainability on campus.



Academic Freedom and Faculty Collaboration

NTUT has established various subsidy programs to maintain academic freedom and promote cooperation and exchange between faculty members and external organizations, including:

- Subsidies for organizing academic seminars, with a total of 15 events subsidized in 2024, amounting to NTD 2,100,000.
- Support for academic collaboration between faculty and external organizations, with 24 collaborating institutions in 2024.
- The problem-oriented learning model provides teachers with the option to select partner enterprises and independently form teacher communities to collaboratively explore research and teaching activities.

Government Consultation and Policy Advice

In accordance with the “Public Functionary Service Act” and related regulations, NTUT faculty and staff can take on expert and scholar roles in government agencies based on their expertise. Since 2023, a total of 474 instances of consultation have been provided to central or local governments. These faculty and staff have provided professional advice on topics such as economics, law, technology, and climate change, with 28, 7, 428, and 11 instances of consultation, respectively, assisting the government in research and policy formulation.

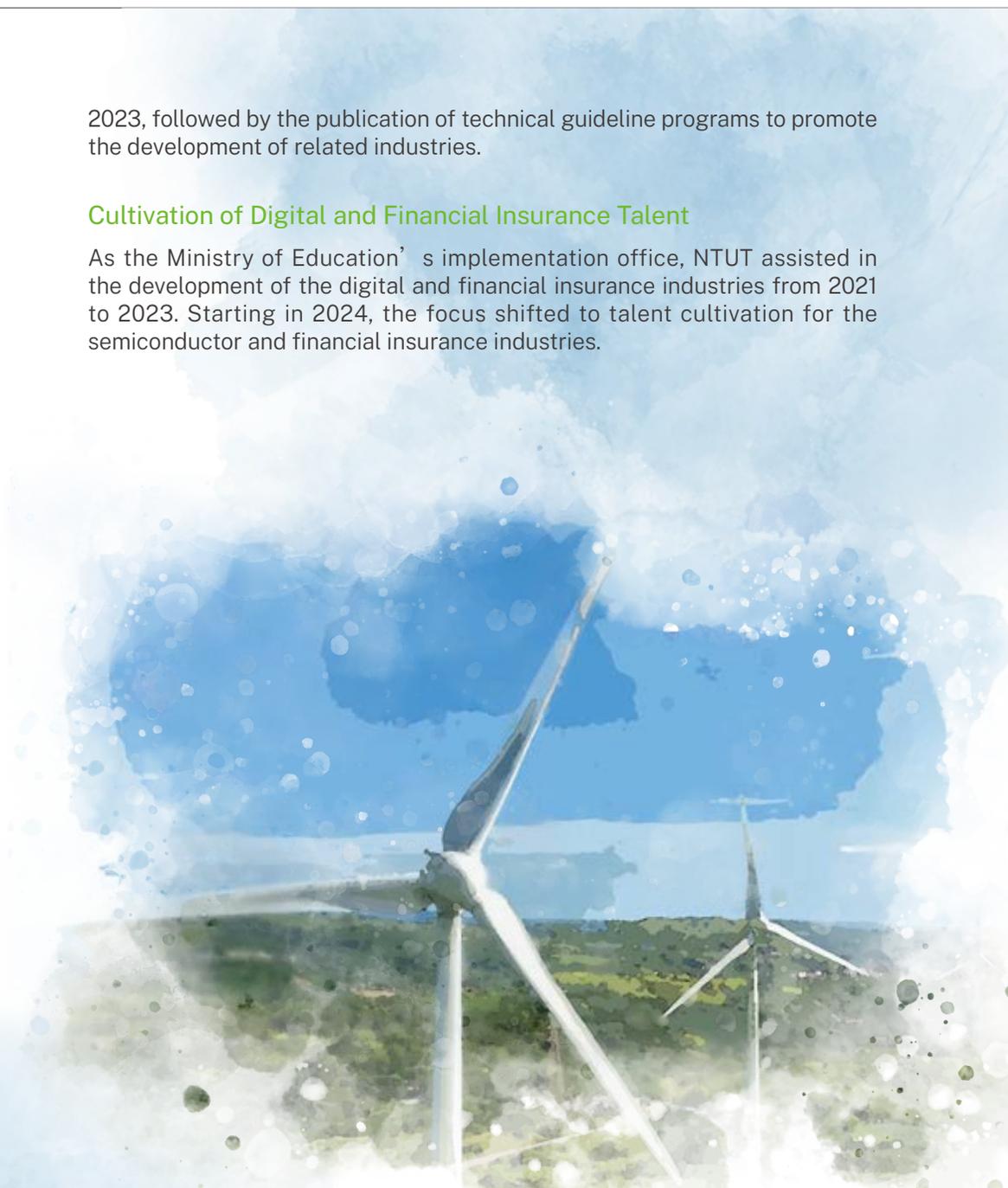
Compilation of Technical Specifications for Offshore Wind Power Generation

Since 2020, NTUT has been commissioned by the Bureau of Standards, Metrology and Inspection under the Ministry of Economic Affairs to collaborate with domestic universities and research institutions in drafting technical specifications for offshore wind power site surveys and design. Additionally, an offshore wind power technical guideline database platform has been established. The database was officially launched on March 31,

2023, followed by the publication of technical guideline programs to promote the development of related industries.

Cultivation of Digital and Financial Insurance Talent

As the Ministry of Education’s implementation office, NTUT assisted in the development of the digital and financial insurance industries from 2021 to 2023. Starting in 2024, the focus shifted to talent cultivation for the semiconductor and financial insurance industries.



A Platform for Diverse Opinion Expression

To respect diverse student opinions, NTUT has established multiple dialogue platforms, such as the NTUT section on Dcard, the Facebook Student Union page, and Instagram, providing channels for students to express their personal views.

Public Discussion Platforms for Students at National Taipei University of Technology



 NTUT's section on Dcard



 Facebook – National Taipei University of Technology_All students



 Facebook – National Taipei University of Technology_Student Union



 Instagram – National Taipei University of Technology_Student Union

Statistical Data

 Number of graduates from law or law enforcement courses: **19**



Through these efforts, NTUT actively fosters students' democratic awareness and social responsibility in promoting peace, justice, and strong institutions.



SDG 17

Partnerships for the Goals

Various Projects and Activities Promoting National Sustainable Development Goals (SDGs)

Government-Ministry Collaboration and Project Implementation

National Taipei University of Technology (NTUT) executes an average of approximately 10 projects each year related to the promotion of national SDGs or policies, including:



Hydrological monitoring



Sustainable and circular campus exploration and promotion



Watershed conservation and management effectiveness evaluation



Offshore Wind Power Inspection

17 Partnerships for the Goals





The President of NTUT, Wang Sea-Fue, and the Chairman of Taiwan Research Institute, Huang Hui-Chen, signed a **memorandum of understanding for offshore wind power technology development and strategic collaboration on technical exchange.**

In addition, faculty members at NTUT serve as policy advisory committee members for the Executive Yuan and Taipei City Government, participating in the formulation of government regulations and directly contributing to the country's SDG policies.

Energy Saving Technology Forum

The Research Center of Energy Conservation (RCEC) for New Generation of Residential, Commercial, and Industrial Sectors at NTUT hosted the Energy Saving Technology Forum in 2023, showcasing the latest developments and applications in energy-saving technologies. The event aimed to raise public awareness of energy transformation and green energy issues. The

forum discussed sustainable topics, green energy development, reducing carbon emissions, and decreasing reliance on imported energy. It aimed to provide the government with insights on addressing power shortages and ensuring energy security, while also sharing examples of ESG sustainable governance practices.



Energy Saving Technology Forum

International Cooperation and SRF R&D

NTUT collaborates with Ho Chi Minh City University of Technology in Vietnam to produce high-quality, low-cost SRF (substitute fuel) from rice husks. The process involves crushing, pyrolysis, mixing, and granulation, showcasing the integration of the two universities' laboratory technologies. This collaboration marks the beginning of a long-term international research partnership aimed at advancing sustainable energy solutions.

Service-Learning Courses

Since 2008, in accordance with the subsidy regulations of the Ministry of Education, NTUT has included service-learning courses as required courses for students, combined with the services of off-campus social welfare units, and conducted student reflection and guidance. Each academic year, approximately 1,500 students participate, fostering virtues of proactive service and mutual cooperation.

Sustainability Seminars and Impact Activities

With the increasing global resource consumption and environmental issues, sustainable development has become one of the major challenges facing society today. To enhance the sustainability knowledge of students and faculty, the University organized at least 27 sustainability-related lectures and series of courses in 2023, with a total of 4,600 participants.



Sustainability Empowerment Courses

The Institutional Research and Sustainability Development Center aims to enhance the understanding of the interactions and impacts between the environment, society, and economy among the University’s faculty, staff, and students through sustainability empowerment courses. By linking external organizations and social enterprise resources, the center conducts sustainability seed training and a series of lectures on sustainability issues. These initiatives teach how to formulate sustainability-related policies and implementation plans to promote social equity, environmental protection, and economic development, while improving competitiveness in addressing future sustainability challenges.

To raise awareness of sustainability among the University’s readers and demonstrate the institution’s commitment to sustainable development, the Library has made it a priority to integrate sustainability topics into its collections and topic-based activities. In 2023, the Library continued to organize multiple SDGs-related cultural and artistic events, leading readers to reflect on and explore sustainability from various perspectives. These activities included e-book borrowing promotions, salon lectures, film screenings, static exhibitions, and online quiz competitions, among others, such as: The “Sustainability WECAN-SDGs X USR Achievement Exhibition,” the lecture on “The Path to Becoming a Sustainable

Professional – Becoming an In-Demand ESG Talent for Enterprises,” a screening of the documentary “Beyond Beauty – Taiwan From Above” followed by a discussion, and the “Lost in a Cats World” photography exhibition and lecture, among others. The activities covered all 17 SDGs, totaling 18 sessions with 2,580 participants. Additionally, to promote the sustainable use of resources and reinforce the concept of legally using books and textbooks, the Library continues to hold biannual second-hand textbook sales. In 2023, a total of 587 books were consigned, and 169 second-hand textbooks were sold, effectively reducing the financial burden on students while extending the life of books through resource sharing.



SDGs Library Resource Guide



NTUT Sustainability Practice Achievements (USR)

In addition, to encourage students to integrate character education into campus sustainability participation, the Library actively includes SDGs-related topics in the bi-monthly publication NTUT Youth. For example, in the “Character Reading” column, a new “Environmental Sustainability” topic was introduced to inspire students to enhance their awareness of green living in their everyday lives and take proactive environmental actions. Moreover, the “Comic Zone” column included topics such as “Women’s Rights and Gender Equality” and “Protecting the Earth,” encouraging students to express their views and ideas on key sustainability issues through creative works. These new additions not only enriched the diversity of the bi-monthly publication but also provided students with a platform to showcase their creativity and sense of social responsibility, working together toward creating a better future.



 Comic Zone - Sustainability and Environmental Protection

 Comic Zone - Promoting Equality and Human Rights

The General Education Center designs relevant courses and activities to guide students in understanding the importance of sustainable development and social participation, encouraging them to actively engage in related actions and initiatives. Related activities, such as those on environmental protection, energy conservation, and waste reduction, were held to help students understand the concepts and actions of sustainable development, fostering environmental awareness and behavior. Lectures on social participation activities were held to enhance students' awareness and involvement in social responsibility. A character education-themed film competition was also organized, with a total of 100 students participating. Green Campus Project: The Green Campus Project was launched, promoting environmental education, energy conservation, and carbon reduction. The "NTUT Stair Climbing Contest" is held each semester, with around 100 faculty and students participating, helping students understand the importance of energy saving and environmental protection practices. Two to three gender equality lectures are held each semester, with around 200 participants attending each session. Topics include discussions such as "Sexual Harassment OUT!" Creating a gender-friendly environment, addressing digital-era sexual violence, exploring diverse paths to family through "everyday conversations," and sharing the life stories of transgender individuals are some of the lecture topics. These discussions, along with film documentaries and activities, help students understand gender differences and promote mutual



General Education Activity: Lecture on Creating a Gender-Friendly Environment

Integration of Local Culture and Sustainable Education

The General Education Center arranged for students to visit "Shuanglian Dagou," where they learned about local historical, cultural, and hydrological data. This experience allowed students to appreciate the significance of regional culture and historical context, enhancing their awareness and concern for the preservation of local historical sites and landmarks.

Cross-disciplinary Sustainability Courses

To cultivate students' awareness of sustainability, NTUT offered a total of 822 sustainability-related courses during the 2nd of 2022 and 1st of 2023 academic semesters, accounting for 19% of all courses offered at the university. Including:

- Institute of Environmental Engineering and Management
- Department of Energy and Refrigerating Air-Conditioning Engineering
- Chemical Engineering & Biotechnology Department
- Department of Architecture
- Department of Civil Engineering

In addition, multiple programs related to sustainability education have been established, including the Sustainable Environmental Design Program, the Biomedical Materials Program, and the Smart Manufacturing Management Microprogram.



General Education Activity: Gender Equality Film Screening



General Education Activity: Eco-Friendly Stair-Climbing Challenge

Promotional Activities of the Library

The Library of NTUT promotes knowledge and resources related to SDGs through book fairs, cultural and arts lectures, and audiovisual films. The activities attracted a total of 1,055 participants. The Library has also set up an SDG learning resource section to provide readers with a variety of related books and materials to promote self-learning.

“Summer E-Learning Fun” E-book Reading and Quiz Event

In response to the significant decrease in visitors during the summer break, the Library encouraged readers to enhance their English skills and deepen their understanding of SDG topics through e-books and e-magazines. Therefore, from July 3 (Monday) to September 7 (Thursday), the Library co-hosted an e-book event with the e-book vendor.

The “English Boost” e-book borrowing and “Sustainable Trivia” prize-winning quiz events. The activity was well attended, with a total of **266** participants. (Aligned with SDG 4 – Quality Education)



“SDGs in E-Magazines” Online Quiz with Prizes

To encourage faculty and students to enhance their understanding of SDGs through reading e-magazines, the Library collaborated with Taiwan’s sustainability issues to promote the use of e-magazines. From October 23 (Monday) to November 17 (Friday), the Library held the event “SDGs in E-magazines”, featuring a static exhibition at the Library’s 1F periodical and magazines area and an online prize-winning quiz activity. A total of **194** participants joined the online quiz. (Aligned with SDG 1-17)



SDG-17

Library Week SDGs Promotion: “Dancing with the Earth”

To promote the SDGs and enhance the awareness of all faculty, staff, and students, the library held a themed exhibition titled “Dancing with the Earth” during Library Week from November 13 to December 22, 2024. Activities include “Protect the Earth with Action” themed book exhibition, “The Movie I Recommend, The Earth You Protect” film festival, “Lost in a Cats World” photography exhibition and lectures, “Finding Solutions for the Earth” electronic resource prize-winning quiz event .



“The Movie I Recommend, The Earth You Protect” Green Film Festival

In line with the SDGs indicators, the Library organized the event “Watch Green Movies, Win Movie Tickets” during the Library Week from November 20 to December 17, 2023. A total of 20 films and documentaries on environmental and ecological issues were showcased. Participants were required to watch the films and answer questions on a form, with **18** individuals successfully completing the assigned tasks. (Aligned with SDG 14 Life Below Water and SDG15 Life on Land)



SDG-14

SDG-15

Sale of Second-hand Textbooks

To implement intellectual property rights on campus and strengthen students’ legal use of books and textbooks, while responding to green environmental protection and resource sustainability, the Library has organized a second-hand textbook sales event every semester since the 2015 academic year. (Aligned with SDG 12 – Responsible Consumption and Production)



SDG-12

Education Courses on the Utilization of Electronic Resources

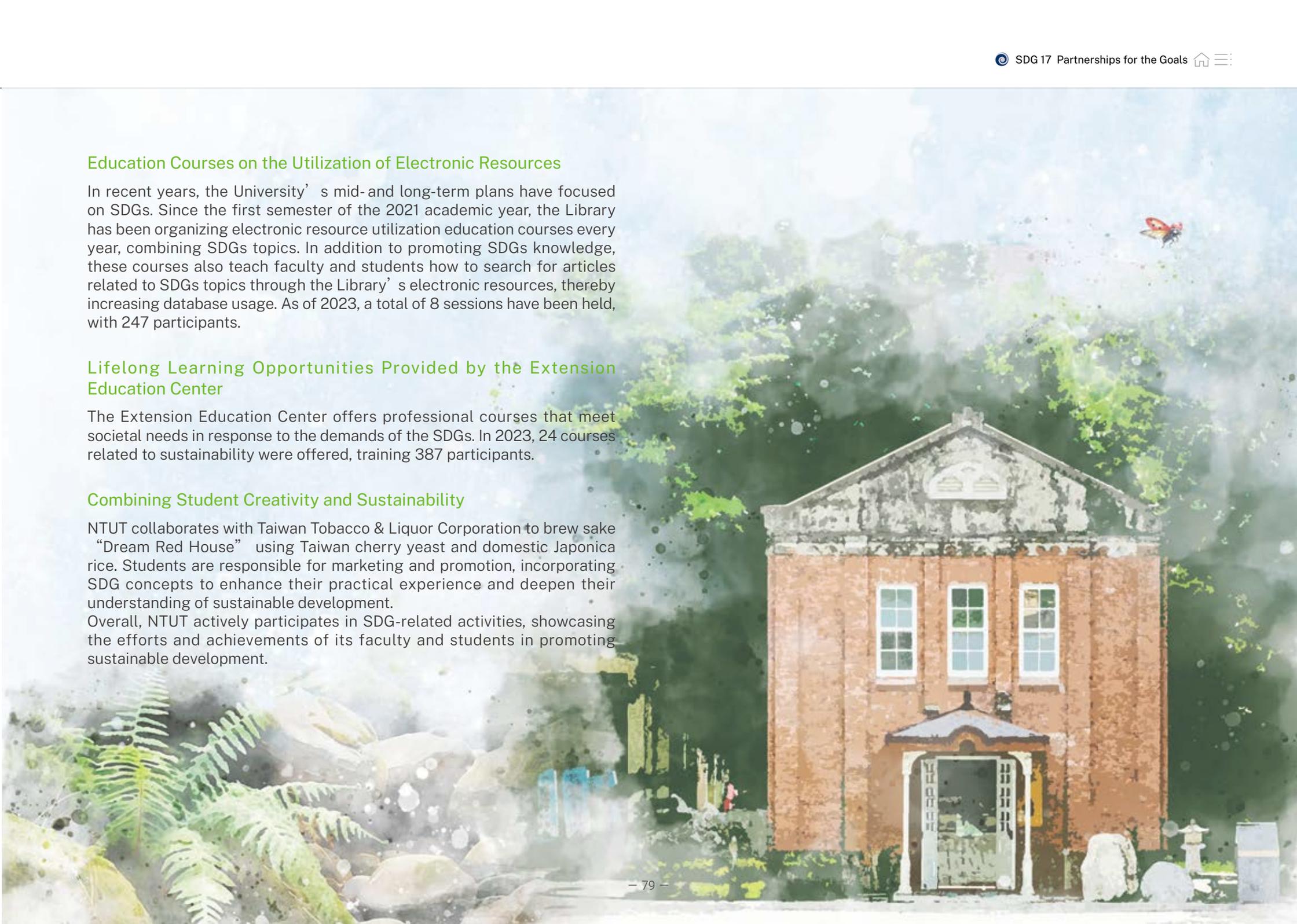
In recent years, the University's mid- and long-term plans have focused on SDGs. Since the first semester of the 2021 academic year, the Library has been organizing electronic resource utilization education courses every year, combining SDGs topics. In addition to promoting SDGs knowledge, these courses also teach faculty and students how to search for articles related to SDGs topics through the Library's electronic resources, thereby increasing database usage. As of 2023, a total of 8 sessions have been held, with 247 participants.

Lifelong Learning Opportunities Provided by the Extension Education Center

The Extension Education Center offers professional courses that meet societal needs in response to the demands of the SDGs. In 2023, 24 courses related to sustainability were offered, training 387 participants.

Combining Student Creativity and Sustainability

NTUT collaborates with Taiwan Tobacco & Liquor Corporation to brew sake "Dream Red House" using Taiwan cherry yeast and domestic Japonica rice. Students are responsible for marketing and promotion, incorporating SDG concepts to enhance their practical experience and deepen their understanding of sustainable development. Overall, NTUT actively participates in SDG-related activities, showcasing the efforts and achievements of its faculty and students in promoting sustainable development.





National Taipei University of Technology SDGs Report

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