



CSR REPORT



2020

國立雲林科技大學
永續報告書

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About the Report

This report follows the GRI guidelines published by the Global Reporting Initiative (GRI), with the "core" option of disclosure, and the four principles of inclusiveness, materiality, responsiveness and impact of the AA1000 Principles of Accountability (2018), as well as the SASB Guidelines - Education published by the Sustainability Accounting Standards Board (SASB). Education discloses sustainability information to stakeholders about YunTech's performance in the four areas of school governance, human resource development, environmental sustainability and social inclusion, and to present a vision and development strategy to address stakeholders' concerns about sustainability issues. If the information is rewritten, it will be explained in the notes.

Scope and Period

The scope of this report is only limited to YunTech. Since YunTech adopts the mechanism of the academic year, the main period of disclosure in this report is the 108th academic year (1 August 2019 to 31 July 2020), and the annual information is presented for 2020 (1 January 2020 to 31 December 2020). Therefore, some information is disclosed for 1-3 academic years or say 1-3 regular years. At the same time, this university has published the sustainable performance on the YunTech CSR website, covering specific practices and performance in "governance", "economy", "environment" and "society".

Contact Information

If you have any suggestions or questions, feel free to contact us through the following sources. Thank you.

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Report Issue Date

This is an annual report and will be ready at August every year.

Issue date of this report: August 2021



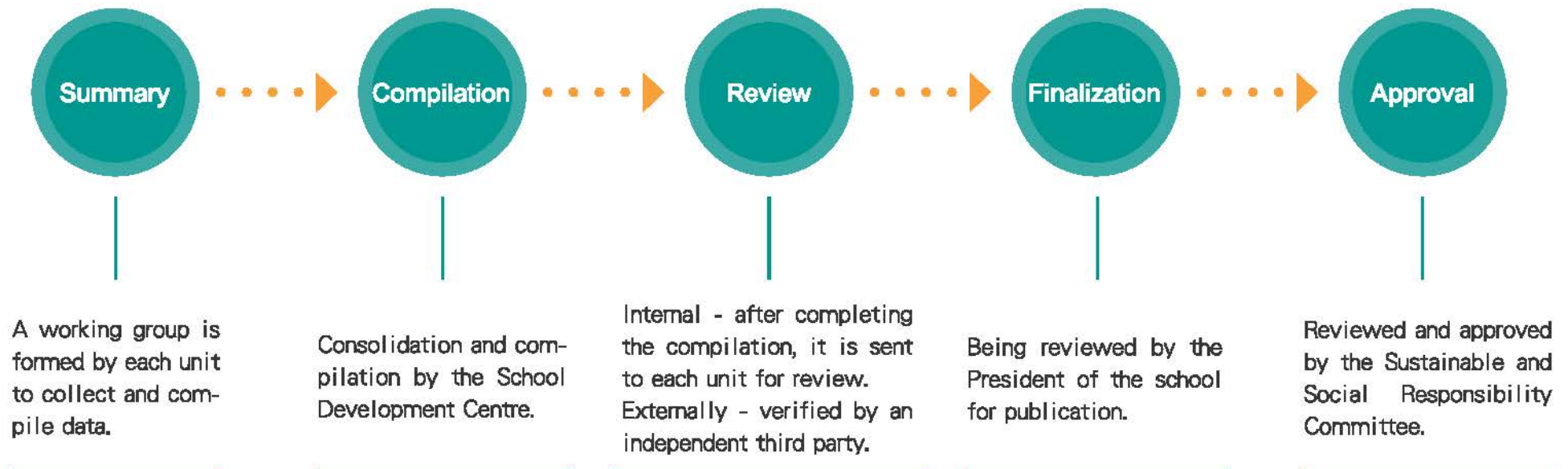
Issue date of previous report: August 2020



Report Verification

This report was verified in July 2021 by the British Standards Institution (BSI) Taiwan, an independent third-party impartial entity, to comply with the GRI Code Core Option Disclosure and AA1000 Assurance Standard: 2008, and its 2018 Appendix Type 1 Moderate Assurance Level, the assurance statement of which is attached to this report.

Report Quality Management Process



Messages from the President

YunTech Vision

Long-term: To promote economic, social and environmental sustainability through the power of education and knowledge

Medium-term: To become an internationally renowned university featuring innovative teaching and industry linkages

Short-term: To promote the sustainable development of all faculties and departments

YunTech has embodied this university's social responsibility and sustainable spirit and has received funding from the Ministry of Education for the past few years to translate the brand's philosophy into teaching, and nurturing students to develop a sound personality and independent thinking skills. Based on the teaching quality management principle of PDCA, the Ministry of Education has announced the results of the assessment of this university of Science and Technology for the 108th academic year, and this university has been evaluated in the categories of "Campus Management and Development", "Curriculum and Teaching", "Student Learning Assurance and Effectiveness" and "Student Learning Performance and Self-Efficacy". This university has also demonstrated a high degree of international exposure by establishing the Centre for Future Technology Research in 2020 to recruit internationally renowned scholars to serve this university for the benefit of our students. In addition, this university has placed more emphasis on life education for its students and



has been awarded the Ministry of Education's Life Education School of Distinction for four consecutive years, the Energy Conservation Elite Innovation Award and the Gold Award for the Energy Conservation Benchmark Award by the Bureau of Energy, Ministry of Economic Affairs. In 2021, this university was ranked No. 301-400 in the world by Times Higher Education (U.K.) in 2021 THE World University Impact ranking, ranking No. 3 on the list of universities in Taiwan and No. 1 in the ranking of universities of science and technology. It also ranked No. 101-200 in five indicators of excellence, such as SDG6 "Clean Water Resources", SDG8 "Good Jobs and Economic Growth", SDG9 "Industrialisation, Innovation and Infrastructure", SDG12 "Responsible Production-Consumption Cycle" and SDG16 "Equity, Justice and Peace". YunTech has also achieved a high score of 83.3 in the SDG17 Global Partnerships category, which upholds the concept of international linkages and in-depth sustainability planning and promotion from the school level.

In addition to its outstanding performance in THE World University Rankings, this university has also fulfilled its social responsibility by linking the industry through innovative teaching and learning to give back to the community. This university has won six awards in the 2020 TCSA Taiwan Corporate Sustainability Awards and it's the only university that has won more than six awards. Specific awards include Taiwan's Exemplary Sustainability University Award (the highest honor), Sustainability Report Award - Gold, English Report Award - Silver (the only school to gain this honor), Social Inclusion Award (a non-profit

only school to gain this honor), Social Inclusion Award (a non-profit organization), two USR (University Social Responsibility) sustainability programs - The Bronze Award (for the collaboration in the construction of a rural village in the Shallow Hills and the development of the Tsou Laiji tribe). In the 2020 World Green University Awards, YunTech was ranked 74th in the world, and the "2020 THE Awards Asia" also ranked YunTech's PBL (Problem-based learning) Research Centre and the "Future Academy" new teaching system among the top eight in Asia for "Best Teaching Strategies of the Year". This shows that YunTech is not only committed to sustainability but has also achieved international standards of excellence in innovative teaching and learning.

Based on the above statement, in terms of sustainable development and fulfilling the university's social responsibility, this university has adopted the U.N. SDGs 17 sustainable development goals and "promoting economic, social and environmental sustainability through the power of education and knowledge" as its long-term sustainable vision. To achieve this vision, YunTech will focus on the development of its faculty and students to meet the needs of the economy, the environment and society, to make outstanding contributions to local and global well-being, to shape an innovative, intelligent, friendly and sustainable campus, and to be ranked among the top 100 universities in Asia and the top 1,000 universities in the world, with five strategies - specialization, academisation, industrialisation, internationalization and intelligence; and in the short term, to promote the sustainable development of all faculties.

In addition to implementing the spirit of sustainable development and realizing it step by step, YunTech also fulfills this university's social responsibility and creates the goal of sustainable development. In terms of social inclusion, this university has been building a sustainable and innovative development model for the Changhu community, researching ethnic groups, and practicing international co-creation and design training. In terms of economic development, this university has been shaping and sustaining the supply chain for a green and sustainable Central Taiwan and Yunlin's chicken farming industry through a new food and agriculture economy. In terms of environmental sustainability, the city of Douliu is the base for linking local communities, campuses and industries to create a "healthy community environment and ecological sustainable coexistence living model", etc. These are all important concrete practices of ecologically linking schools, society and industries to solve social problems and convey local creativity, social creation, cultural preservation and sustainable development to the public.

Through these efforts, YunTech has been actively implementing the goal of a sustainable campus, promoting a spirit of public responsibility and care among all staff and students, expanding the social participation of teachers and students, implementing innovation in teaching and improving the quality of teaching, developing the school's characteristics, enhancing the public nature of higher education, and fulfilling social responsibility. It is believed that YunTech will follow the United Nations' sustainable development goals and continue to realize our vision of sustainable development in the short, medium and long term,

moving towards "an internationally renowned university featuring innovation, teaching and industry linkages".

YunTech President

楊能舒

Honors of YunTech



Environment

- 👑 2020 UI Green Metric World University Ranking across the world: 74th
- 👑 2020 Golden Pin Design Special Award for Circular Design
- 👑 2019 Green Building Honorable Mention for Schools by Ministry of the Interior



Society


- 👑 2020 Taiwan Corporate Sustainability Awards
 - Social Integration Award for the Enterprise Excellence Case <Empowerment and Social Integration for the Home to Tea and Bamboo>
 - The Third Prize for the University Social Responsibility Scheme <Constructing Qianshan Village in Concerted Efforts>
 - The Third Prize for the University Social Responsibility Scheme for <Revitalizing the Laiji Tribe of Tsou Indigenous People>
- 👑 2020 Red Dot Design Concept Award
 - One entry awarded "Best of the Best"
 - One entry awarded "Winner"
- 👑 2020 Germany Red Dot Award; Brands & Communication Design
 - Three entries awarded "Winner"
- 👑 2020 Germany The iF Design Talent Award
 - Five entries were awarded, of which one was awarded Best of the Year (the third prize worldwide)
- 👑 2020 International Exhibition for Young Inventors in Tokyo: Winning 6 gold and 4 silver awards
- 👑 2020 Russian Moscow Archimedes International Invention Exhibition: Winning 2 gold and 2 silver awards
- 👑 2020 Malaysia International Invention, Innovation & Technology Exhibition (ITEX): Winning 1 silver and 1 copper awards
- 👑 2020 Taiwan Innotech Expo: Winning 1 platinum, 2 gold, and 2 copper awards
- 👑 2020 Ukraine International Invention Exhibition: Winning 3 gold and 3 silver awards
- 👑 2020 Macau International Innovation & Invention Expo: Winning 2 gold and 1 silver award
- 👑 2020 International Warsaw Invention Show: Winning 3 gold and 1 silver award
- 👑 2020 Seoul International Invention Fair: Winning 1 gold, 2 silver, and 2 copper awards
- 👑 2020 Hong Kong Innovation Technology Fair: Winning 8 gold and 2 silver awards



Governance

- 👑 Rankings in Times Higher Education World University Rankings 2020
 - <Emerging Economies University Rankings> 201st - 250th
 - <Young University Rankings> 301st - 350th
 - <Impact Rankings> 301st - 400th
 - <The index Industrial Income (Knowledge Transfer)> 58th in the world
- 👑 2020 Taiwan Corporate Sustainability Award
 - <Corporate Comprehensive Performance Award> Sustainability Model for Taiwan Universities
 - <Corporate Sustainability Reporting Award> Gold Award
 - <Corporate Sustainability Reporting in English> Silver Award
- 👑 Top 1% of World ESI (Essential Science Indicator) in 2020 <Engineering and Social Sciences>
- 👑 Shortlisted for 2020 The Times Higher Education Awards Asia <Teaching Strategies> ranked Top 8
- 👑 The survey by Commonwealth Magazine on Enterprises' Favorite Universities in 2020 No. 5 among technical and vocational colleges
- 👑 2020 World USR Citizenship Survey: No. 2 among public technical colleges
- 👑 2020 Vision Get Wild: School of the Year

YunTech Performance




Economy

Government subsidy income: NT\$1.31 billion ↑	Local supplier ratio: 100%
Revenues: NT\$ 2.71 billion ↑	Local supplier procurement spending ratio: 100%
Student employment rate: 95.99% ↑	
The average salary of graduates: NT\$ 42 thousand	
Industry-Government-Academia Collaboration results Number: 944 ↑ Amount: NT\$1.27 billion ↑	



Environment

The first campus possessing a sewage treatment plant in Taiwan	Tap water recovery rate: 79% of the campus area
No violation against environmental laws and regulations	Five green buildings
Electricity saving ratio: -0.48% ↓	The amount/ratio of preferential procurement: NT\$ 3.51 million ↑
Total energy consumption: 67,371.08 GJ ↓	11.95% ↑
Sewage recovery rate: 53.85% ↑	The amount/ratio of green procurement: NT\$ 34.71 million ↓
Tap water recovery rate: 21.22% ↓	99.89% ↑



Society

The number of the faculty and staff: 750 ↑	The number of awards at home and abroad won by students: 82
The number of students: 9,808 ↑	No corruption
The number of academic papers published: 685 ↑	No grievance from staff
100% of project assistants have ethics certification.	No information leakage incidents
NT\$ 10.14 million has been invested in implementing social integration and placemaking. ↑	No information security or threat attack incidents
The number of Taiwan USR practice bases at which we have worked: 84	Aid measures for students
	The total number of beneficiaries is 4,231 . ↑
	The amount of grants is NT\$ 58.54 million. ↓

* The realization of annual targets is decided based on the comparison with the previous year's comprehensive performance

↑ indicating growth ↓ indicating decline

Sustainable Performance of YunTech

Course and Teaching (The number of courses open to students)

	3	4	5	6	7	8	9	11	12	13	14	15	17
College of Engineering	2	1		12	5	5	12		1	2	2	2	2
College of Management	8	1				15	2		11				41
College of Design	1	2				1	3	2			2	9	3
College of Humanities and Sciences	4	32	2	1	1	1					2	2	11
College of Future	7	9	8	1	4	5	3		1	1	4	3	
Total	22	45	10	14	10	27	20	2	13	3	10	16	57

Sustainable Performance of YunTech

Academia-Industry Projects (Number)

	3	4	6	7	8	9	11	12	13	14	15	17
College of Engineering	13	83	147	16	22	40	10	10	3	13	11	22
College of Management	6	42	5	3	28	10	1	16	2	5	6	10
College of Design	5	41	29	2	39	34	17	3	1	11	14	17
College of Humanities and Sciences	2	69	13	6	16	5	7	2		7	8	17
College of Future		13	3	1	6	3	1	2	1		1	4
Total	26	248	197	28	111	92	36	33	7	36	40	70

YunTech aims to fulfill its social responsibility. Therefore, it integrates resources within the campus and pushes all of its colleges to promote SDGs projects. Since 2020, it has required its colleges to complete sustainability reporting. Here, YunTech collates the data about the number of courses open to students, academia-industry projects, and publications. In particular, YunTech excels in the following sustainable development goals (SDG): [SDG4](#), [SDG6](#), [SDG8](#), [SDG9](#), and [SDG17](#).



Sustainability reports for each college can be referred to via the following links:



College of Engineering



College of Management



College of Design



College of Humanities and Sciences



College of Future



01

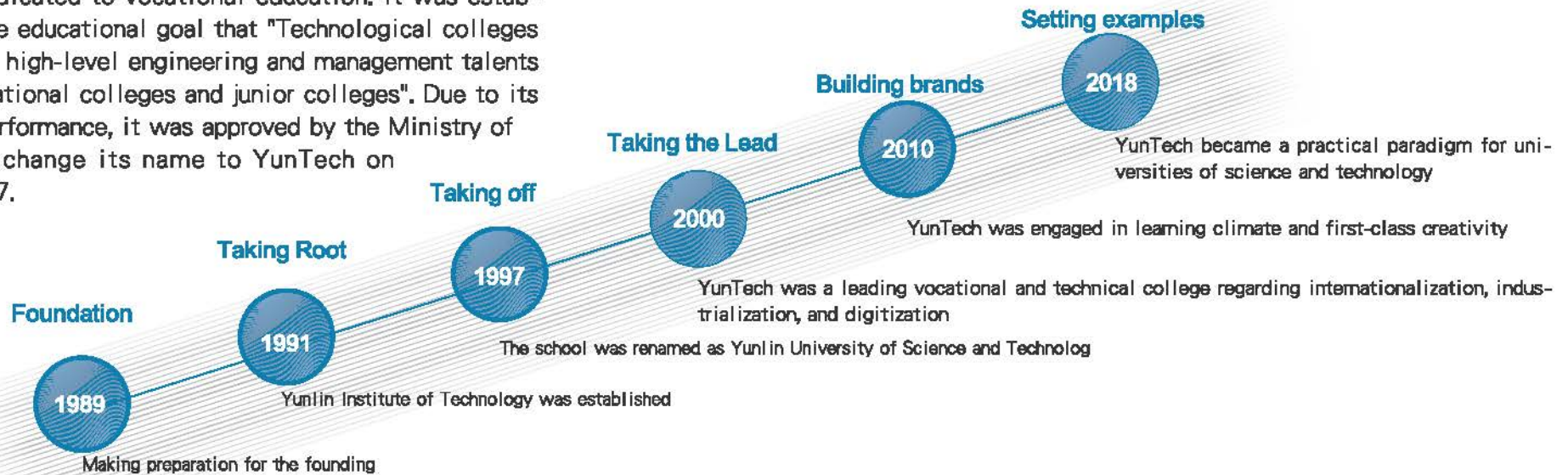


YunTech
Vision and Strategy



1-1 History of YunTech and Organizational Framework

Founded in 1991, YunTech was originally known as National Yunlin Technological College, which was a higher education institution dedicated to vocational education. It was established with the educational goal that "Technological colleges shall cultivate high-level engineering and management talents for higher vocational colleges and junior colleges". Due to its outstanding performance, it was approved by the Ministry of Education to change its name to YunTech on August 1, 1997.

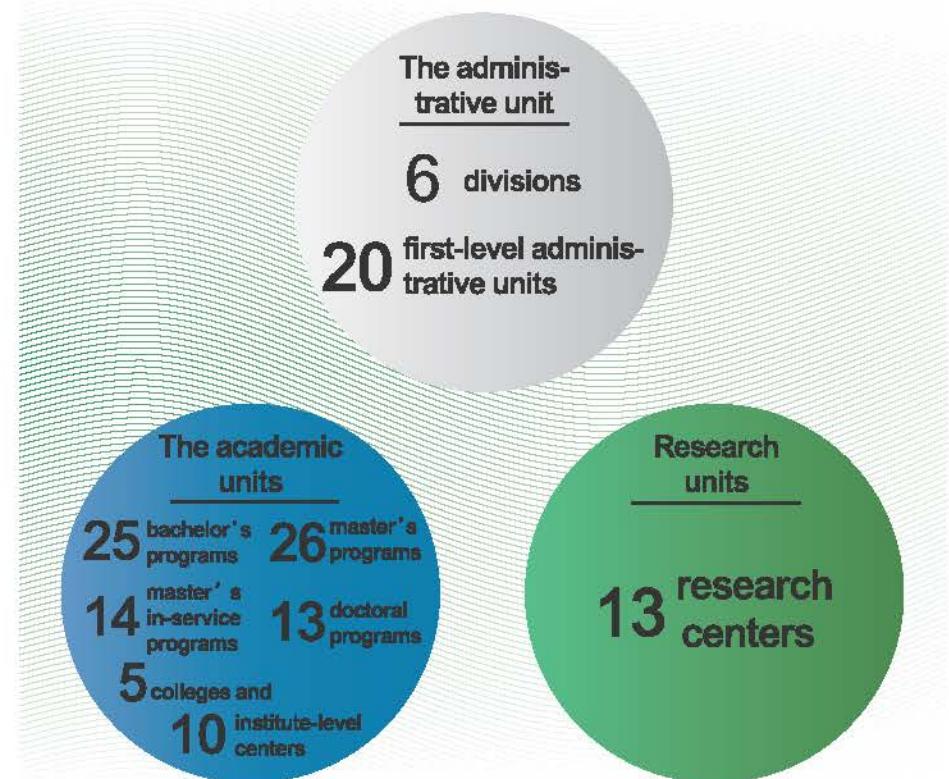


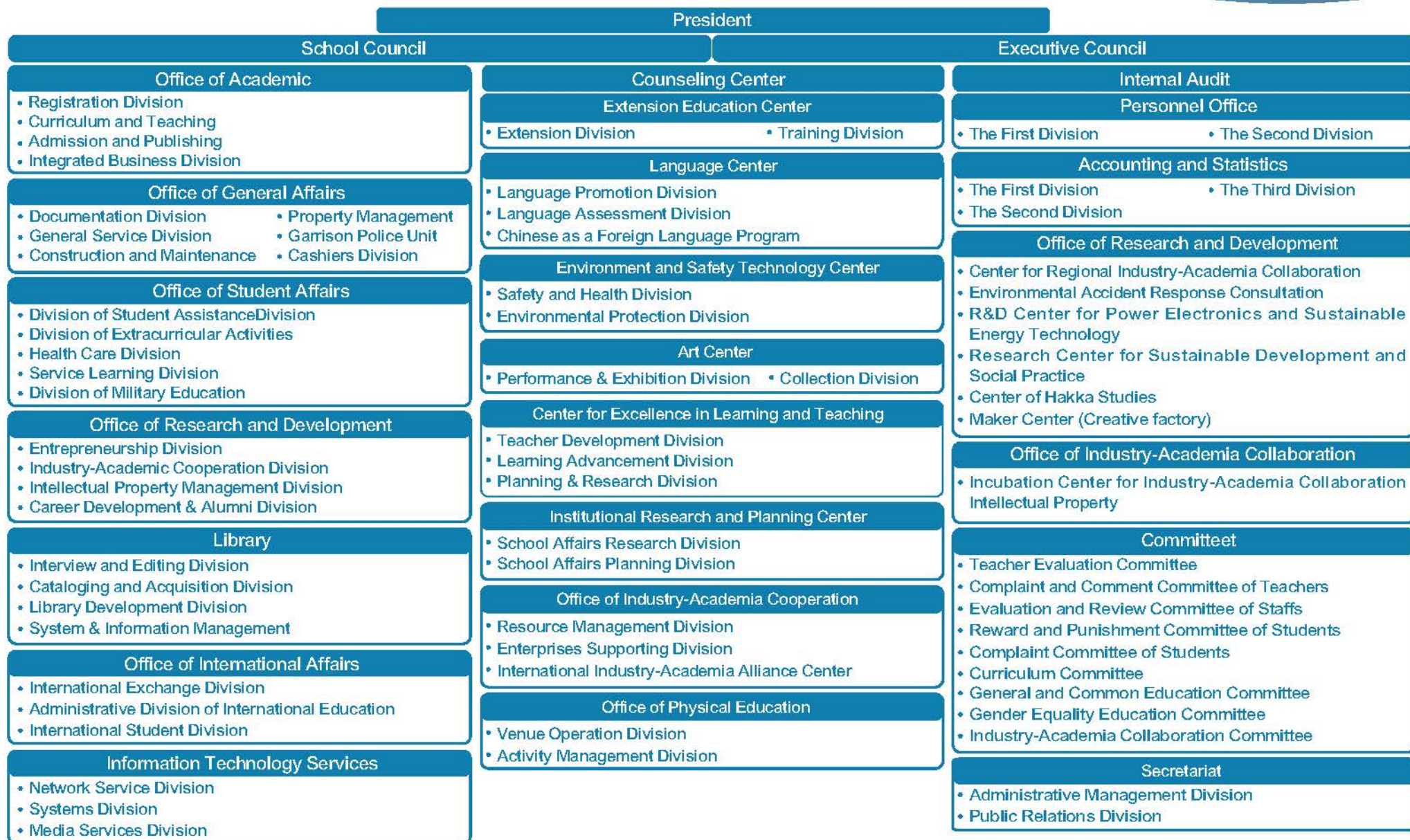
Under the leadership of past presidents and of the current president Dr. Yang Neng-Shu, YunTech has been known internationally as a university that values industry-academia integration and that continuously cultivates talents who produce innovative designs after 30 years of development. In recent years, YunTech has successfully promoted mutually beneficial cooperation between the industry and academia, creating a campus that cultivates industrial talents in mid-Taiwan.

In the recent decade, YunTech has permeated its brand concept through teaching with the assistance of "Development of Paradigm University of Science and Technology Program" and "Award of Teaching Excellence for Universities and Colleges of Science and Technology" by the Ministry of Education. Based on the advantages of Industry-Academia cooperation and innovative teaching, it strives to build a university of science and technology with "industry-university integration and innovative design" for practical purposes. In 2020, YunTech continued to receive subsidies from the "Higher Education Sprout Project" of the Ministry of Education to further build a dual learning system and environment for students' development on adaptability for practical purposes. Moreover, YunTech has developed a problem-based learning (PBL) system for industry-academia cooperation, so as to achieve the goal of cultivating talents who will be employed upon graduation.

School Name	National Yunlin University of Science and Technology (YunTech)
Address	No. 123, Section 3, University Road, Douliou, Yunlin 64002, Taiwan
President	Professor Yang Neng-Shu
URL	https://www.yuntech.edu.tw/
CSR URL	http://www.yuntech-csr.tw/ (in Chinese) http://en.yuntech-csr.tw/ (in English)
The number of full-time faculty members	426 (including foreign faculty teachers)
The number of part-time faculty members	215
The number of foreign faculty members	14
The number of staffs	324
The number of students	9,808
The number of colleges	5
The number of departments	25 (including 6-degree curricula)
The number of institutes	26 master's programs, 14 master's in-service programs, and 13 doctoral programs
Total operating revenue in 2020	NTD 2,716,985,149
Total operation expenditure in 2020	NTD 2,806,909,012
Surplus and deficiency in 2020	A shortage of NTD 89,923,863
Cash and equivalents cash in 2020	NTD 1,099,338,171

YunTech is a higher education institution that provides higher technological and vocational education approved by the Ministry of Education without the board of directors. It consists of one president and three vice-presidents. The president is responsible for the comprehensive management of school affairs and school development, representing the school externally. The vice presidents assist the president in school affairs. There is no significant change in its organization and supply chain during the reporting period.





President

School Council

Executive Council

College of Engineering

- | | |
|--|--|
| <ul style="list-style-type: none"> • Institute of Engineering Science and Technology (a doctoral program divided into Science and Technology Division and Practical Industry Division) • Department of Mechanical Engineering (master and doctoral program) • Department of Electrical Engineering (master's program) • Department of Electronic Engineering (master and doctoral program) • Department of Information Engineering (master's program) | <ul style="list-style-type: none"> • Department of Environment and Safety and Health Engineering (master's and doctoral program, and on-the-job master's program for environmental safety technology and management) • Department of Chemical and Materials Engineering (master's and doctoral program) • Department of Construction Engineering (master's program) |
| <ul style="list-style-type: none"> • Research Center for Industrial Pollution Prevention and Control • Resources and Natural Disaster Prevention Technology | <ul style="list-style-type: none"> • Intellectualization and Monitoring Research Center • Precision Instrument Center • Construction Technical Services and Materials Testing Center |

College of Management

- | | |
|---|--|
| <ul style="list-style-type: none"> • Department of Industrial Engineering and Management (master's and doctoral program, and on-the-job master's program of Industrial Engineering & Management and Health Industry Management) • Department of Business Administration (master's and doctoral program, the master's program consists of Business Administration Division, International Business Administration Division and Entrepreneurship Administration Division) • Department of Information Management (master and doctoral program) | <ul style="list-style-type: none"> • Accounting Department (master and doctoral program) • Master's Program of Advanced Management (on-the-job master's program) • Department of Finance (master and doctoral program) • Bachelor's Degree Program of Business Administration (No.4 Technical Extension Education Department) • Bachelor's Degree Program of Industrial Management • Bachelor's Degree Program of International Management |
| <ul style="list-style-type: none"> • Intelligent Business Center | <ul style="list-style-type: none"> • Center for Business and Management Research |

College of Design

- | | |
|---|--|
| <ul style="list-style-type: none"> • Institute of Design (master and doctoral program) • Department of Visual Communication Design (master's program) • Department of Architecture and Interior Design (Architecture Division and Interior Division, master's program) | <ul style="list-style-type: none"> • Department of Creative Design (master's program) • Department of Creative Design (master's program) • Department of Industrial Design (master's program) |
| <ul style="list-style-type: none"> • Design Research Center | |

College of Humanities and Applied Sciences

- | | |
|---|---|
| <ul style="list-style-type: none"> • Institute of Technical and Vocational Education (master and doctoral program) • Institute of Leisure and Sports (master's program) • Institute of Materials Science and Technology (master's program) • Department of Applied Foreign Languages (master's program) | <ul style="list-style-type: none"> • Institute of Applied Sinology (master's program) • Institute of Science and Technology Law (master's program) • Department of Cultural Assets Maintenance (master's program) • Teacher Training Center |
|---|---|

College of Future

- | | |
|---|--|
| <ul style="list-style-type: none"> • Prospect Bachelor's Degree Program • Bachelor's Degree Program of Intelligent Robotics • Bachelor's Degree Program of Industrial Projects | <ul style="list-style-type: none"> • Bachelor's Degree Program of Industrial Technology • Future Technological Research Center |
|---|--|

1-2 Blueprint for School Development

An Internationally Renowned University That Features Innovative Teaching and Industrial Docking

YunTech has formulated the Intermediate Development Plan for the Year 2021 to 2025 by building "an internationally renowned university that features innovative teaching and industrial docking" as its vision. It aims to deliver excellent performance in four aspects: student cultivation, teacher development, university contribution, and international influence. To realize its vision, YunTech has made outstanding contributions to local and global well-being by promoting the development of teachers and students based on economic, environmental, and social needs. This way, YunTech strives to build an innovative, intelligent, friendly, and sustainable campus ranking Top 100 in Asia and Top 1,000 worldwide.



YunTech expects to make contributions to sustainability in the following four aspects:

Regarding school management



It aims to make the higher education more accessible and establish YunTech as a paradigm for vocational education by structurally changing the school step by step.

Regarding students' learning



It aims to implement innovation and improve teaching quality, giving full play to students' potential.

Regarding industrial strength



It aims to develop unique characteristics, redefine current jobs and unearth new ones.

Regarding social environments



It aims to fulfill social responsibility and build a better world by solving social issues.

1-3 Sustainable Core Concept, Vision and Strategy

Core Concept: Promoting economic, social and environmental sustainability through the power of education and

YunTech gathers the strength of teachers and students from different fields and schools to deal with actual problems that face communities. It utilizes social innovation as the driving force that promotes local growth and regional revitalization and brings the corresponding outcomes to its innovative teaching. With teaching and social support, YunTech takes various measures that ensure environmental, economic and social sustainability and promote industrial settlement and community culture innovation.

Vision

Short-term Goal

Based on the Intermediate Development Plan for the Year 2021 to 2025, YunTech established the College of Future and Problem-Based Learning Research Center, formulating a more valuable talent cultivation scheme for the higher technical and vocational education system and pushing the colleges to move toward sustainable development.

Intermediate Goal

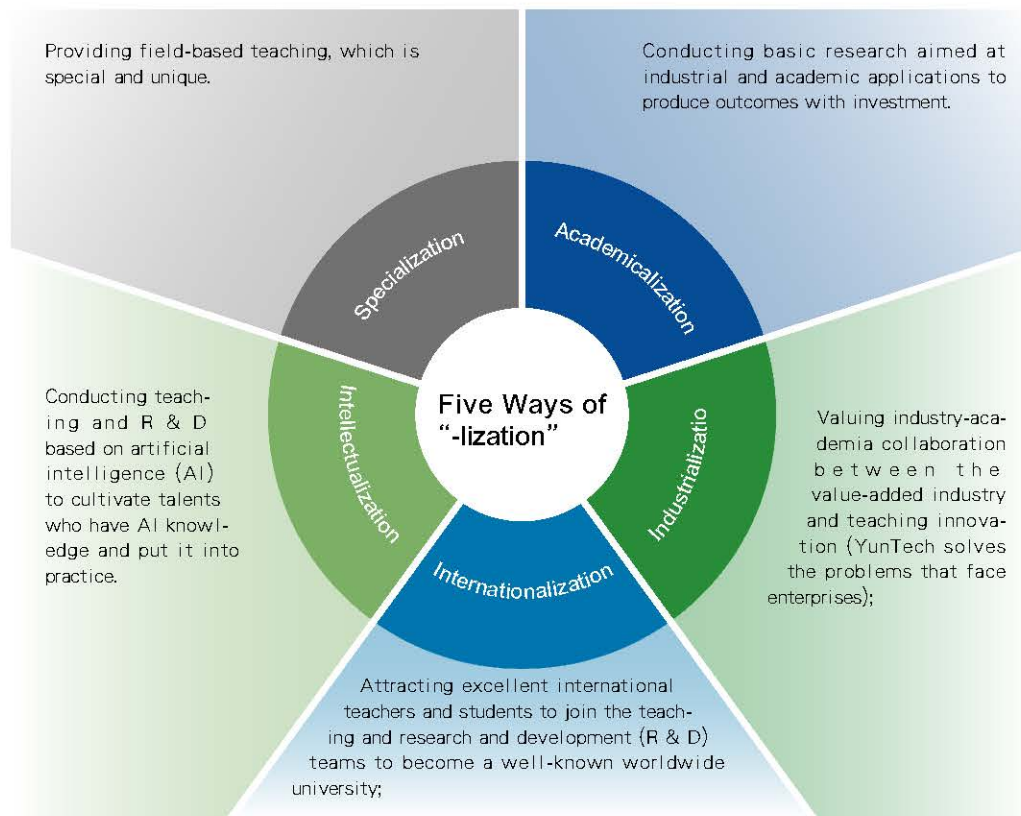
With building an internationally renowned university that features innovative teaching and industrial docking as its medium-term vision, YunTech has made outstanding contributions to local and global well-being by promoting the development of teachers and students based on economic, environmental, and social needs. Moreover, YunTech strives to build an innovative, intelligent, friendly, and sustainable campus ranking Top 100 in Asia and Top 1,000 across the world through the following five strategies: (1) Specialization: Featuring field-based teaching and research; (2) Academicalization: Conducting basic research aimed at industrial and academic applications; (3) Industrialization: industry-academia collaboration between the value-added industry and teaching innovation; (4) Internationalization: attracting excellent international teachers and students to join the teaching and research and development (R & D) teams; and (5) Intellectualization: teaching and R & D based on artificial intelligence.

Long-term Goal

YunTech strives to promote economic, social, and environmental sustainability with the power of education and knowledge. To achieve the goal, it delivers an excellent performance on student cultivation, teacher development, university contribution, and international influence.

Strategy

In addition to specialization, academicalization, industrialization, internationalization, and intellectualization, YunTech solves actual problems that face communities by the teachers and students from different schools and fields with Research Center for Sustainable Development and Social Practice as its core. Under the supervision of the Sustainability and Social Responsibility Committee, YunTech promotes industrial settlement and community culture innovation by ensuring environmental, economic, and social sustainability. It fulfills its social responsibility as a university with social innovation as the driving force that promotes local growth and regional revitalization.



Research Center for Sustainable Development and Social Practice

Vision



An indication of concern about society and assistance in solving social problems



Teaching promotion through fulfilling social responsibilities and solving problems



Deeply cultivating the creative industry settlement and offering the community on independent operation

Enabling YunTech to help: giving back to society and fulfilling its civic responsibility

Sustainability and Social Responsibility

YunTech set up Sustainability and Social Responsibility Committee in 2019 because of the following goals: to implement the management of sustainability and social responsibility, to shape a sustainable culture, to integrate the spirit of sustainable development into teaching, R & D, operation, and social services, and to enhance the recognition and implementation of sustainable development. The committee assembles once a year, but the principal can convene meetings at any time when necessary. The committee reports directly to the highest level governing unit.

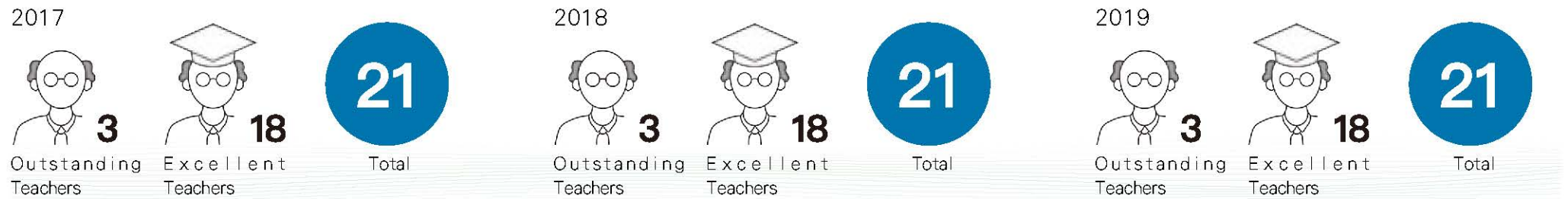


1-4 Rewards

Awards to Teachers

Outstanding and Excellent teachers

YunTech awards teachers who excel in teaching to recognize their efforts and contributions to teaching. It pursues good teaching quality, so it aims to encourage teachers to continue improving it with the awards to cultivate talents of higher education and contribute to the great cause. “Excellent Teaching Award” is only given to 5 % of the full-time faculty, while “Outstanding Teaching Award” is only given to 1 % of them. Excellent teachers are selected based on the votes from students and their teaching achievements, of which outstanding teachers are chosen.



Number of Outstanding and Excellent Teachers in the Academic Years from 2017 to 2019

Yunduo Award

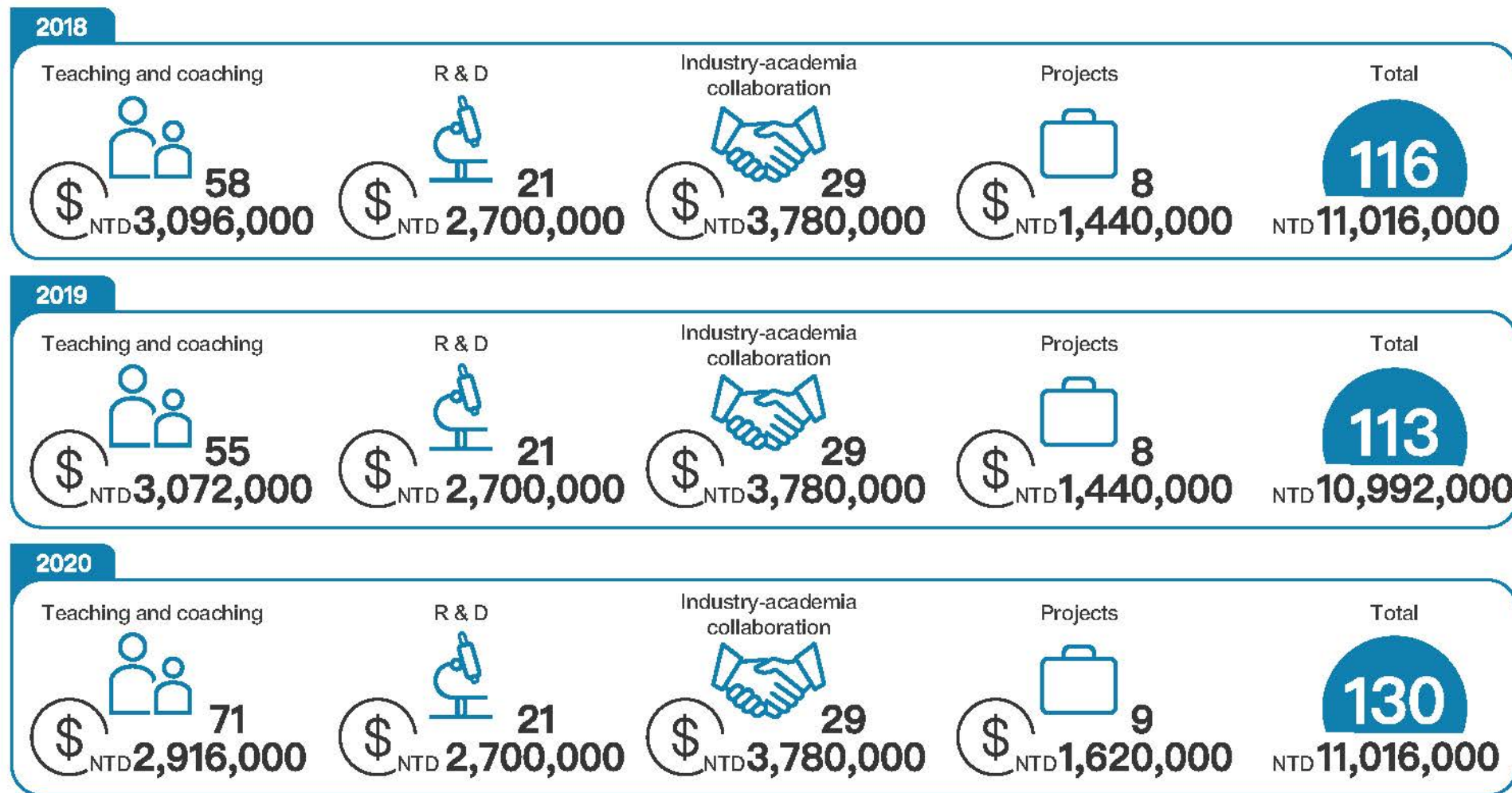
To motivate our teachers to cultivate students’ personalities and give them care and guidance in life while imparting knowledge, YunTech makes Yunduo Award to recognize teachers’ efforts and contributions. Yunduo Awards is granted to 5 to 7 teachers each year, with at least one for each college of the university. All full-time teachers who have continuously served at the school for no less than two years by the end of a given academic year are entitled to the Yunduo Award. In the academic year of 2019, a total of six teachers won Yunduo Award.



Teachers who Won Yunduo Award in the Academic Years between 2017 and 2019

Awards for Industry-Academia Collaboration

YunTech issued Key Points of Flexible Salary Payment in Higher Education Sprout Project to encourage teachers to engage in academic research and industry-academia collaboration and recruit and retain talents.



Flexible Payment from 2018 to 2020

Awards to Students

Awards for the Students who Deliver an Outstanding Performance outside the Campus

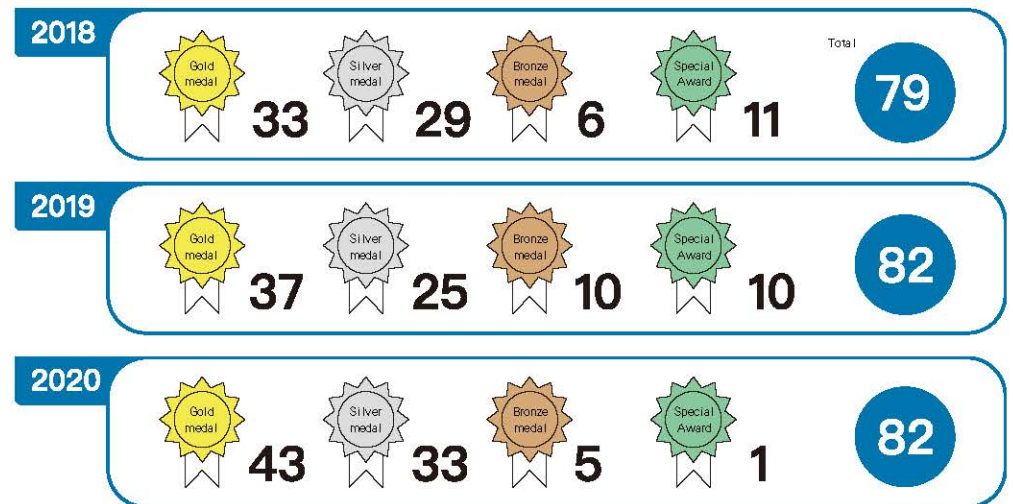
The awards for students are made to encourage them to enter the competitions outside the campus, giving them the incentive to create, invent, and attend domestic and foreign competitions. Students put in an excellent performance in this regard, and the application for the awards has been rising. Therefore, the committee responsible for the awards suggested increasing the budget for the awards in 2019, and the total amount of the rewards increased to NTD\$ 750,000 in 2020. However, the year 2020 witnessed a decline in the application for the reward because some competitions were put off or canceled due to COVID-19.



The Number of Awards and Amount of Rewards to Students from 2018 to 2020

Awards for Domestic and Foreign Competitions

YunTech provides grants to teachers and students who enter well-known invention competitions with outstanding works, hoping to motivate them to participate in competitions at home and abroad to expand their horizons, stimulate the sense of honor in them, and motivate them to make progress. The competitions that they are encouraged to attend Moscow International Salon of Scotch and Innovation Technologies "Archimedes", International Exhibition of Scotch and Inventions Scotch of Geneva, International Invention, Innovation and Technology Exhibition (ITEX), Malaysia, International Women's Invention Exhibition and Creative Competition, The Invention and New Product Exposition (INPEX, USA), Macao International Innovation and Invention Expo, World Genius Convention and Invention Exhibition, Taiwan Innotech Expo, International Salon of Scotch and New Technologies New Time, International Warsaw Invention Show (IWIS), Seoul International Invention Fair (SIIF), Hong Kong International Invention and Design Competition, and German iF Design Award (Professional Concept).



Number of Awards for Domestic and Foreign Competitions from 2018 to 2020





02

Organizational Governance and Stakeholder Participation



Major Topics in the Chapter

Information Security

Academic and Government Ethics

Faculty Career Development and Training

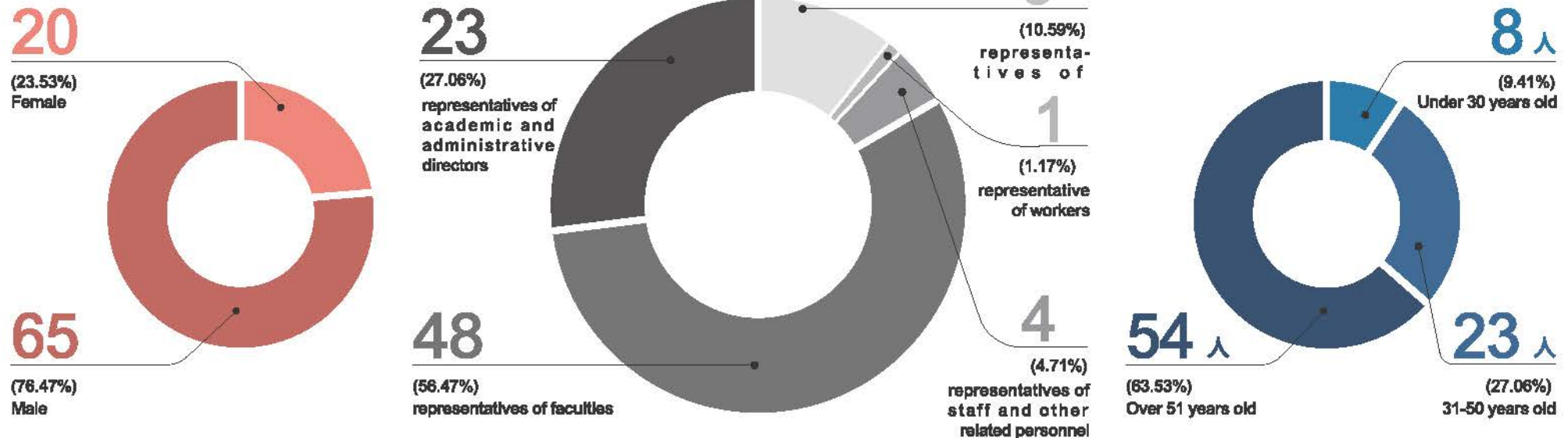
2-1 Governance Procedures

School Council - The Highest Governance Unit

Our school has no board of directors as a national technical college, and the school council is the highest-level authority. According to the school's organizational rules, the school council is the highest decision-making organization to decide the major affairs of the school. With the president of YunTech as its chairman, the council is composed of representatives of academic and administrative directors, faculties, researchers, staff and other relevant personnel, workers and students. It is responsible for deliberating the development plan and budget of the school, organizing rules and various important regulations. The council is also responsible for the establishment, change and discontinuation of departments, institutes, divisions and affiliated institutions, academic affairs, student affairs, general affairs, research and other important matters within the university, the study of teaching and learning assessment methods, the resolution of committees or project groups set up by the School Council, meeting proposals and matters proposed by the president, etc.

The term of office of school council representatives is one academic year, except for the representatives of the academic and administrative director.

Composition of the School Council in 108 Academic Year:

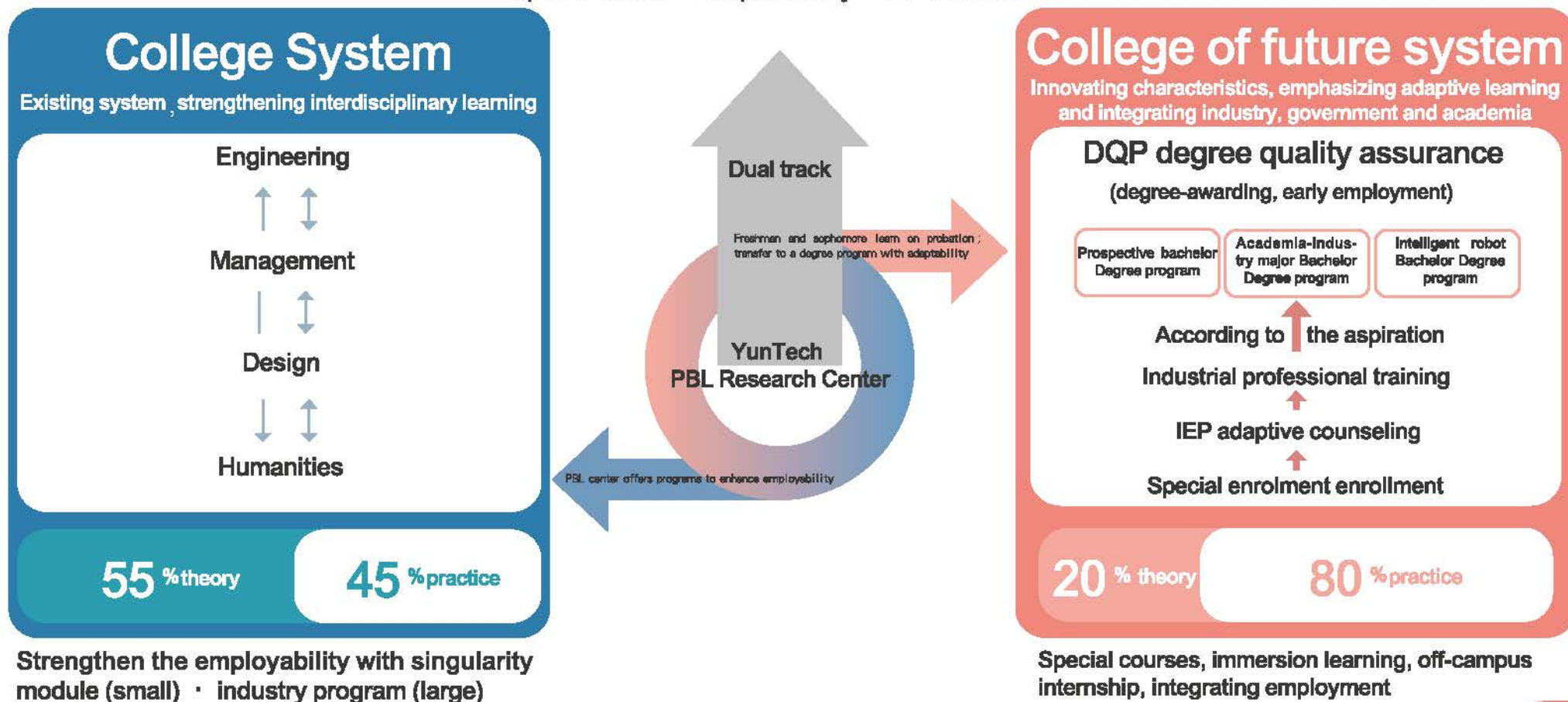


“School Affairs Development Committee” has formed with the executive, academic managers and teacher representatives called by the president. In the action plan, the key is to create the College of future and YunTech PBL Research Center, to build a new type of YunTech teaching cultivation system with the characteristics of “student learning as the center, nurture by nature as the goal, educational innovation as the strategy, and society and industry as the field”.

Building a new type of University of Science and Technology in 2022

Specialization · Responsibility · Industrialization

Specialization · Responsibility · Industrialization



In order to implement the medium-term development plan and give full play to the progressive improvement mechanism of PDCA, the school affairs development is extended to five parts according to the school management concept, namely educational administration, academic administration, administrative support and energy-saving and carbon reduction, academia-industry cooperation and international cooperation and exchange. With the top-down program, six leading units (Office of academic affairs, office of student affairs, office of general affairs, office of research and development, office of international affairs, industry and University Office) and their related units jointly formulate the management and examination index value, target value, short-term and medium-term development plan, etc. The bottom-up evaluation program is taken to make regular management and examination to achieve efficiency, supplemented by audit and internal control. All these efforts are made to realize the vision and goal of school governance.



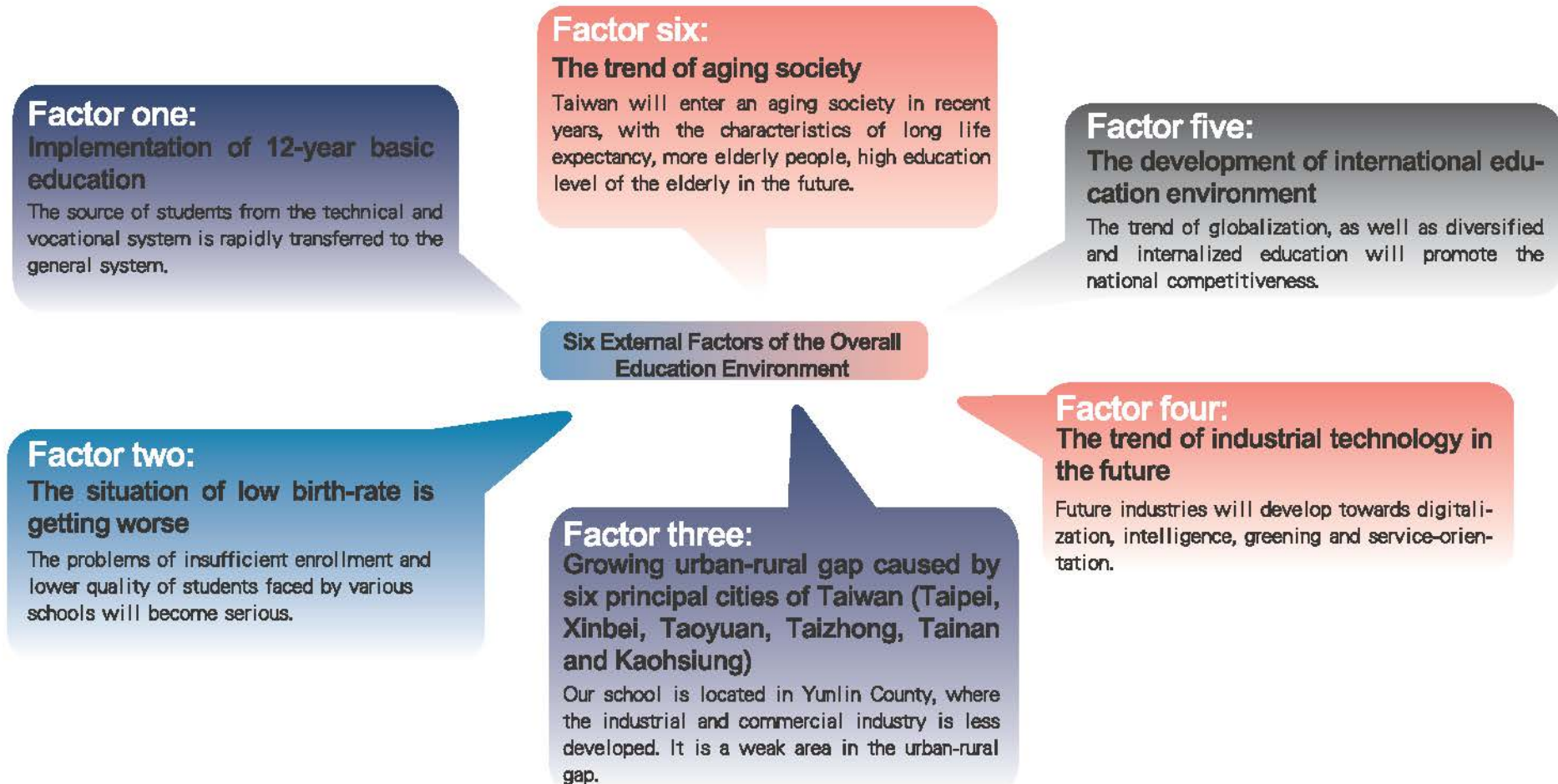
In addition to continuously strengthening the operational efficiency and effectiveness, the school's medium-term plan focuses on implementing the higher education sprout project in the short term. In the medium term, it adjusts the plan's contents in time to meet the needs of national development policies, industrial science and technology needs, globalization trends and school affairs development so as to pool the consensus of the whole school and formulate the policy of collective wisdom. Moreover, it will enhance the comprehensive competitiveness of YunTech and lead the university to become a "University of science and technology paradigm for practical purposes" with "student development on adaptability, cross domain cooperation of teachers, application-oriented R&D, and international influence in technical and vocational education, practical problem solving, and basic research".

In response to the rapid changes of higher education environment, YunTech actively participates in inter and off school alliances and public associations, such as: Alliance of five colleges and universities, Yunlin County Government-Academia collaboration platform, regional industry-academia cooperation center and executive office of industry-academia linkage of Ministry of education, Academia-Industry Consortium Science Parks Central Taiwan, Institute of Engineering Education Taiwan (IEET), and Association of National University of science and technology of Taiwan, Alliance of Colleges and Universities at Changhua, Yunlin and Chiayi Counties, intercollegiate alliance of central technical colleges, Taiwan Association for higher education, association of national universities of Taiwan, Taiwan Industry-Academia Promotion Association, Academia-Industry Consortium of Taichung Software Park in Taiwan (AICTSP), Alliance of National Universities at Yunlin County, The 10th Convention on Biological, the International Partnership for the Satoyama Initiative proposed by the Japanese government and UNU-IAS, etc. Through the strategic alliance between organizations, integrate resources, complementary advantages, open resources, sharing and reciprocity, the university has established friendly inter-school alliance relationship, and improve the quality of its educational and academic level



2-2 Risk Analysis and Internal Control System

Risk Analysis



YunTech is committed to teaching, research and development, and sustainable development. It has long been linked and cooperated with industries and civic organizations, boasting the strength of teaching and research. It has been awarded subsidies from teaching excellence project, model university of science and technology program and higher education sprout project provided by Ministry of education, making it a benchmark school in the domestic technical vocational system. However, due to its relatively short history and remote geographical position, the school integrates teaching administration, academic administration, administrative support, industry-academic cooperation, and international cooperation and exchange to analyze the strengths and weaknesses, opportunities and threats (SWOT) of future development conditions.

- Fruitful achievement made by research and development
- Promote the integration of IEET and AACSB with international standards
- Excellent quality of faculties, and ranking first among universities of science and technology in the central region
- A young university with potential that are most appreciated by enterprises
- Teaching innovation
- Good industrial strength and complete industrial chain
- High employment rate of University of science and technology
- Scholarship for great performance of entrance exam
- Sound and stable financial growth
- Abundant resources of book collection
- Perfect campus planning and high quality learning environment

S Strengths

- Continuous subsidy from higher education sprout project provided by Ministry of education
- The international AI program is in great need of international talents.
- The deregulation of international /mainland enrollment enable the active recruit of international talents.
- Ministry of education subsidizes the appointment of specialist teachers to optimize student-teacher ratio.
- PBL Center Bridging industrial demand
- Innovate the dual track structure and create the nurture by nature for the university of science and technology

O Opportunities

W Weakness

- Relatively weak geographical position
- It's not easy for alumni to raise money as a young university.
- The number of teachers is relatively small, which affects the academic competitiveness.
- Insufficient environment for internationalization, and the weak expansion of international students

T Threats

- Fewer students influenced by low birth-rate
- Fierce competition in academia at home and abroad
- Asian countries have developed key universities
- International trend, global competition
- The degree of technical and vocational students is declining year by year, and the ability of graduate students to participate in research is slightly insufficient

Response

In the face of the six external factors mentioned above, YunTech has continued to strive for sustainable education, academics, and industry development over the past few years with the subsidies from teaching excellence project, model university of science and technology program and higher education sprout project provided by Ministry of education. Given the six external factors mentioned above, the university has also conducted a SWOT analysis as the cornerstone of YunTech's future development conditions. In response, medium- and long-term practices are included as key items to be considered in the mid-term plan for campus development from 2021 to 2025. Therefore, in the current medium-term plan, we have developed the key strategies of the five dimensions (specialization, academicization, industrialization, internationalization, and specialization), and will promote the strategies in the levels of university, faculty, and departments (top-down-achievement side and bottom-up-knowledge side). In addition, the university will make adjustments to the rolling mechanism of campus development to move toward the vision of "an internationally renowned university featuring innovative teaching and industry-academia cooperation".

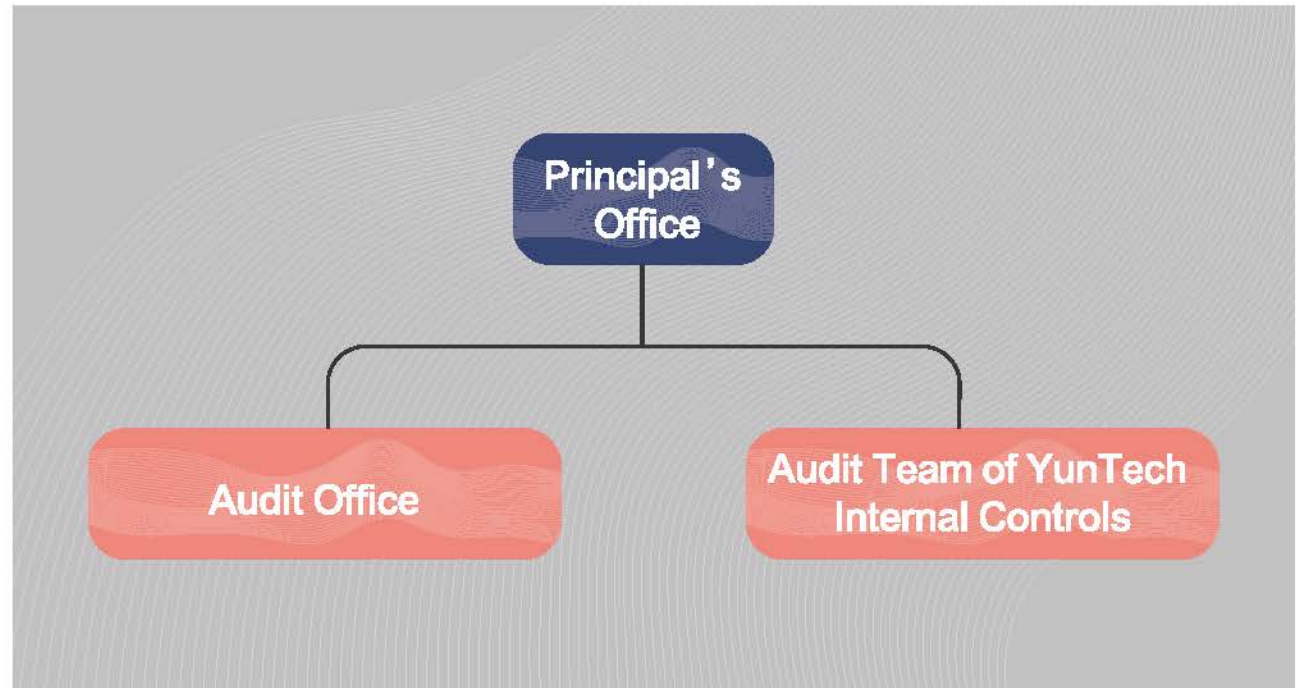
In this report, we will also explain in detail YunTech's strategy for 2020 in response to the six external factors.

External Factors	YunTech's Response according to SWOT Analysis
Factor one: Implementation of 12-year basic education	01 Yuntech's vision and strategy 02 Organizational governance and stakeholder participation 04 School performance
Factor two: The situation of low birth-rate is getting worse	01 Yuntech's vision and strategy 02 Organizational governance and stakeholder participation 04 School performance
Factor three: Growing urban-rural gap caused by six principal cities of Taiwan (Taipei, Xinbei, Taoyuan, Taizhong, Tainan and Kaohsiung)	01 Yuntech's vision and strategy 02 Organizational governance and stakeholder participation 05 Environmental protection performance 06 Social integration and place-making
Factor four: The trend of industrial technology in the future	01 Yuntech's vision and strategy 03 Financial operation performance 04 School performance 06 Social integration and place-making
Factor five: The development of the international education environment	01 Yuntech's vision and strategy 04 School performance 06 Social Integration and place-making
Factor six: The trend of an aging society	01 Yuntech's vision and strategy 05 Environmental protection performance 06 Social integration and place-making

Internal Control System

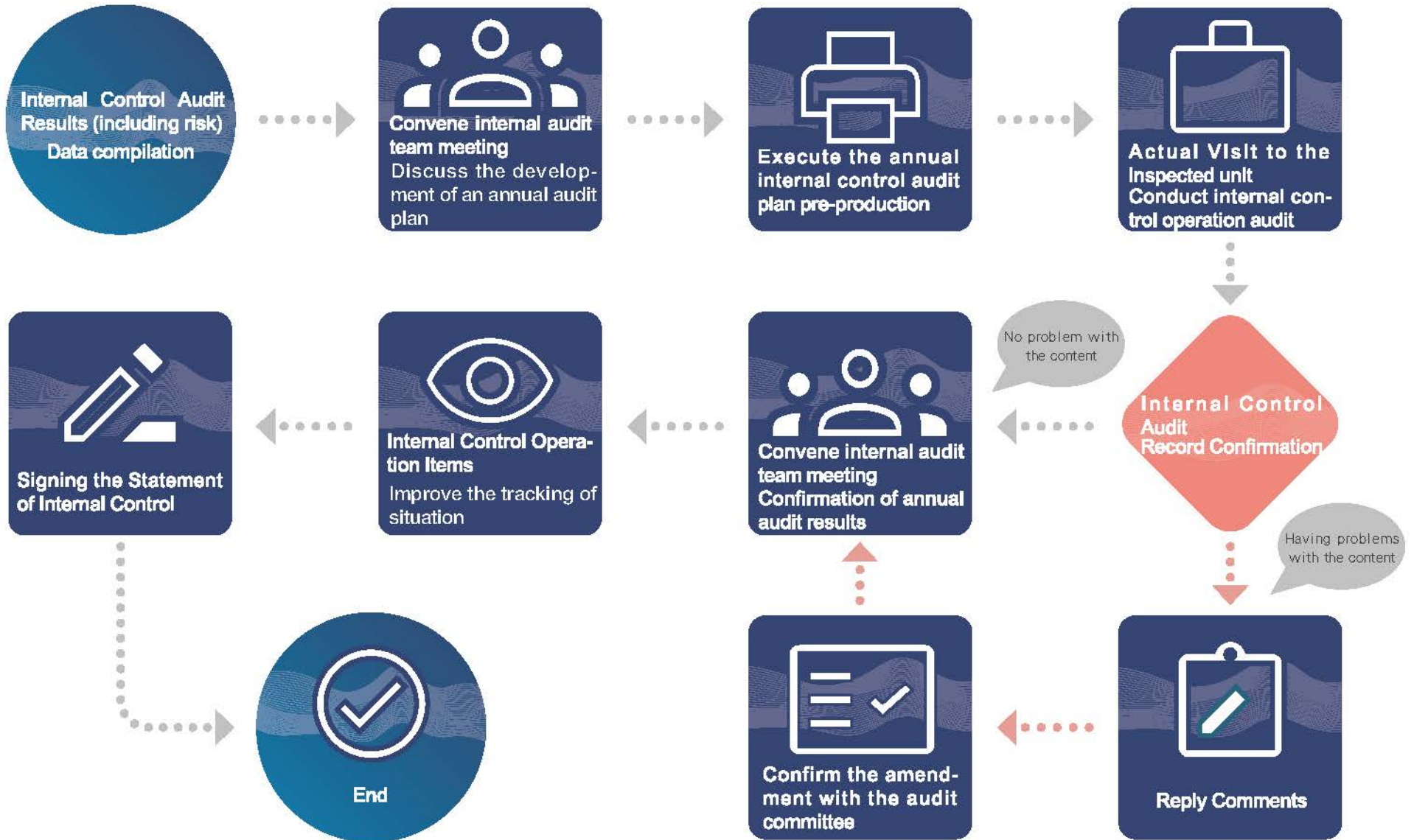
In order to strengthen and ensure the continuous and effective operation of the internal control system, enhance the effectiveness of governance, administration in accordance with the law, and to prevent the occurrence of financial malpractice, the school set up “key points for setting up internal controls project team” and holds a meeting every semester to review the implementation of internal controls in each unit. The internal controls project team reviews each unit’s system operation project reports every year and provides improvement suggestions to reduce operational risks.

In order to assist each unit in examining and reviewing the implementation of the internal controls system, the school sets up an internal audit office as a unit specifically responsible for auditing with one director and one auditor and establishing the “audit team of YunTech internal controls”.



YunTech internal audit implements the self-monitoring mechanism, promoting the units to achieve administrative objectives and improving operational efficiency. The audit plan is based on the risk factor table for each control operation of each unit, and the control operation items with a high-risk assessment level are formulated.

22 work operations were audited in 2020, and a total of 17 improvement measures or specific suggestions for improvement are proposed and continuously tracked in 2021 whether each unit has completed the improvement. In addition, to strengthen internal control operations, the audit office will participate in the on-site property inventory review operation of the Asset Management Group in 2020 to improve the efficiency of the audit through actual participation.



2-3 Communication with Stakeholders

Identification and Communication of Stakeholders

The stakeholders of YunTech is defined as the person or organization that has a direct or indirect influence on the school and is affected by the school.

The Stakeholders of YunTech


The committee of sustainable and social responsibility has established nine main stakeholders for communication through resolution.





Our school emphasizes communication with stakeholders, using a variety of communication channels. In addition to relevant activities, meetings, and surveys, the school's development center publishes a report on sustainability and an annual report on the current state of school affairs in August and December each year. The reports publicize the results, such as school affairs, enrollment and admissions, and establish multiple communication channels to facilitate feedback from the stakeholders.

current students		
Concerns	Communication channel	Communication frequency
Teaching quality Learning effectiveness Teaching resources Curriculum planning Internship and employment opportunities Safety and health of campus environment	System of advice on school affairs	At any time
	Accountability report of current affairs of YunTech	Once a year
	Student complaints	At any time
	Have an appointment with the president	Once a year
	Tutor communication	Irregular
	School council	Once a semester
	Service satisfaction survey	Once a semester
	Teaching evaluation	Once a semester
	Satisfaction survey on the implementation of tutorial	Once a semester
Email address of each unit	At any time	

parents		
Concerns	Communication channel	Communication frequency
Teaching quality	Accountability report of current affairs of YunTech	Once a year
Learning effectiveness	Parents' forum for freshmen	Once a semester
Teaching resources	School website	At any time
Curriculum planning	Email address of each unit	At any time
Internship and employment opportunities	Sustainability Report	Once a year
Safety and health of campus environment		
School reputation		

Faculties	Concerns	Communication channel	Communication frequency
	School administration	System of advice on school affairs	At any time
	Brand Vision	Accountability report of current affairs of YunTech	Once a year
	Financial performance	Consensus camp	Once a year
	Sustainable development	Consensus camp	Once a year
	Risk management	Email address of each unit	At any time
	Occupational safety and health of workers	Schoolwide teaching conference	Once a semester
	Career development and training of faculties	Schoolwide tutor meeting	Once a semester
	Teaching and research environment	School council	Once a semester
		Faculty complaints	At any time

Community residents	Concerns	Communication channel	Communication frequency
	Environment and ecological sustainability	Secretariat	At any time
	Justice for community and society	Accountability report of current affairs of YunTech	Once a year
	Community development and interaction	School website	At any time
	Energy consumption and management	Sustainability Report	Once a year
	Utilization of water resources		
	Waste and wastewater treatment		

Alumnus	Concerns	Communication channel	Communication frequency
	Teaching quality	System of advice on school affairs	At any time
	Learning effectiveness	Accountability report of current affairs of YunTech	Once a year
	Student's health and safety	School website	At any time
	Teaching resources	Survey on the flow of graduates	1/3/5-year after graduation
	Curriculum planning	The alumni association	Irregular
	School reputation	Alumni service platform	At any time
	Email address of each unit	At any time	

Enterprises	Concerns	Communication channel	Communication frequency
	Teaching quality	Office of Research and Development	At any time
	Brand Vision	Accountability report of current affairs of YunTech	Once a year
	Learning effectiveness	School website	At any time
	Curriculum planning	School website	At any time
	Internship and employment opportunities	Employer satisfaction survey	Once a year
	Student's health and safety	Sustainability Report	Once a year
		General Center for Industry-Academia-Research Collaboration	At any time

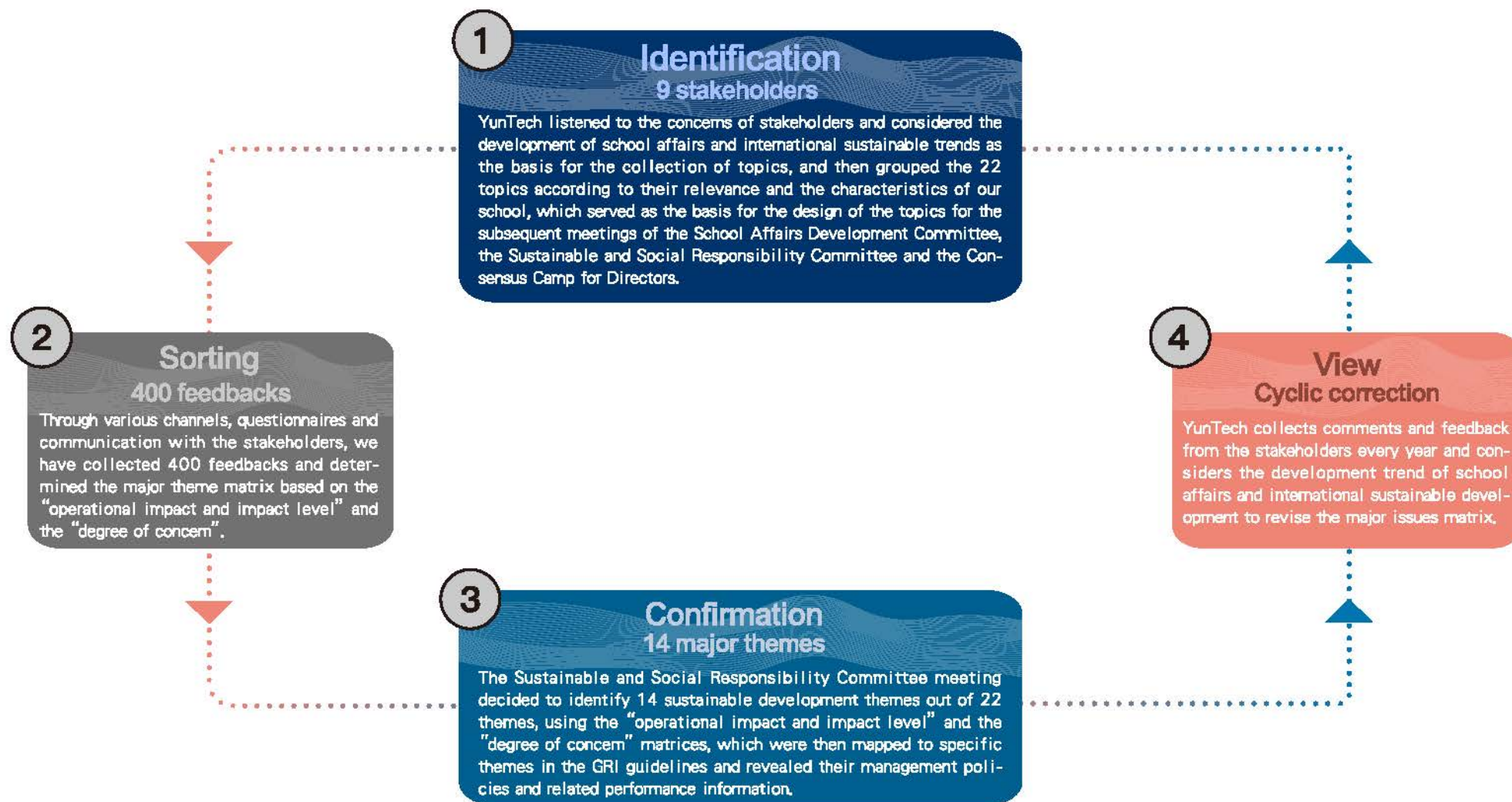
Government organizations	Concerns	Communication channel	Communication frequency
	Assessment of school affairs and college	Secretariat	At any time
	Brand Vision	Accountability report of current affairs of YunTech	Once a year
	Learning effectiveness	School website	At any time
	Curriculum planning	School website	At any time
	Student's health and safety	Assessment of teaching	Irregular
	Sustainable development	Certification by professional Institutions	Irregular
		Sustainability Report	Once a year

NGO	Concerns	Communication channel	Communication frequency
	Sustainable development	Secretariat	At any time
	Service learning and volunteer service	Accountability report of current affairs of YunTech	Once a year
		School website	At any time

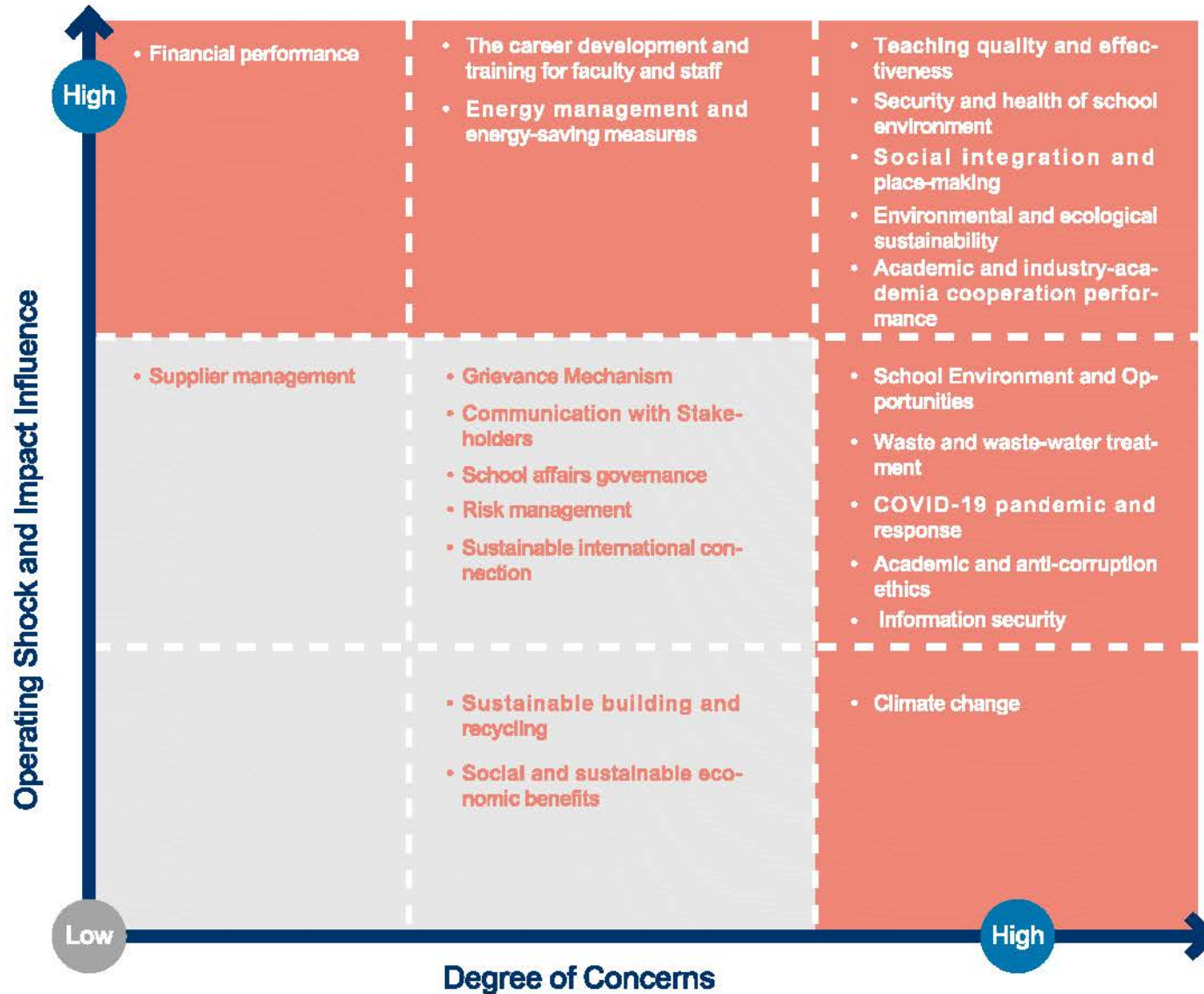
Suppliers	Concerns	Communication channel	Communication frequency
	Supplier management	School website	At any time
		Business affair group	At any time

Major Issues and Impact Assessment

To accurately understand the topics concerned by the stakeholders, 14 major topics were selected through four steps: identification, sorting, confirmation and inspection.



Compared to the report of 2019, there are some minor changes to the major themes and theme boundaries in this report, removing the issues of supplier management and adding two major issues of COVID-19 pandemic and climate change.



Disclosure of the Management Policy for Major Issues and Their Boundary Analysis

Teaching and administrative input, teaching and administrative activities, research and development achievements, school image and marketing, social integration and placemaking are the five major components of

Sustainable development topic	Major sustainable development issues for 2020	Chapters	Specific topics of GRI standards/on-campus custom issues	Corresponding page number of management policy	Teaching / Training / Supporting Value Keys							
					Main activities					Supporting		
					Teaching and administrative input	Teaching and administrative activities	Research and development achievements	School image and marketing	Social integration and placemaking	School Infrastructure	Human resource management	Procurement
Economy	Financial governance	Chapter 3	201 Economic performance	55	★	★	★	★	▲	★	★	
	Social Integration and placemaking	Chapter 6	203 Indirect economic impacts	110-111					★			
	School Environment and Opportunities	Chapter 4	Custom issues	63-64	★	★	★	★		★		
	Academic and industry-academic cooperation performance	Chapter 4	Custom issues	63-64	★	★	★	★				
Environment	Energy management and energy-saving measures	Chapter 5	302 Energy	85-88	★	★	★	★				
	The school environment, safety and health	Chapter 5	307 Environmental compliance	85-86	★	★	★	★	▲	★		
	Waste and waste-water treatment	Chapter 5	306 Sewage and waste	85-88	★	★	★	★	▲			
	Environmental and ecological sustainability	Chapter 5	307 Environmental compliance	85-88	★	★	★	★	▲			
	COVID-19 pandemic and response	Chapter 5	Custom issues	85-86	★	★	★	★	★		★	
	Climate change	Chapter 5	302 Energy	85-86	★	★	★	★	▲			
Society	Academic and anti-corruption ethics	Chapter 2	205 Anti-corruption	41	★	★	★	★			★	
	Staff career development and training	Chapter 2	202 market position 401 Employment relationship 406 diversity and equal opportunity 408 anti-discrimination	45	★	★	★	★			★	
	Information security	Chapter 2	418 Customer privacy	43	★	★	★	★			★	
	Teaching quality and effectiveness	Chapter 4	Custom issues	63-64	★	★	★	★				

★ : Direct impacts / ▲ : Cause impacts / ○ : Business relationship impacts

Teaching/Training/Supporting Value Keys

Main activities

Supporting activities

Corresponding SDGs

Impacts on shareholders

Teaching and administrative input

Teaching and administrative activities

Research and development achievements

School image and marketing

Social integration and placemaking

School infrastructure

Human resource management

Procurement



Faculty
Governmental organization



Students Faculty
Governmental organization



Students Faculty
Alumni Governmental organization
Enterprises Non-governmental organization



Students Parents
Faculty Alumni
Enterprises



Students Faculty
The community Governmental organization
Non-governmental organization



Students
Faculty
The community



Faculty



Suppliers

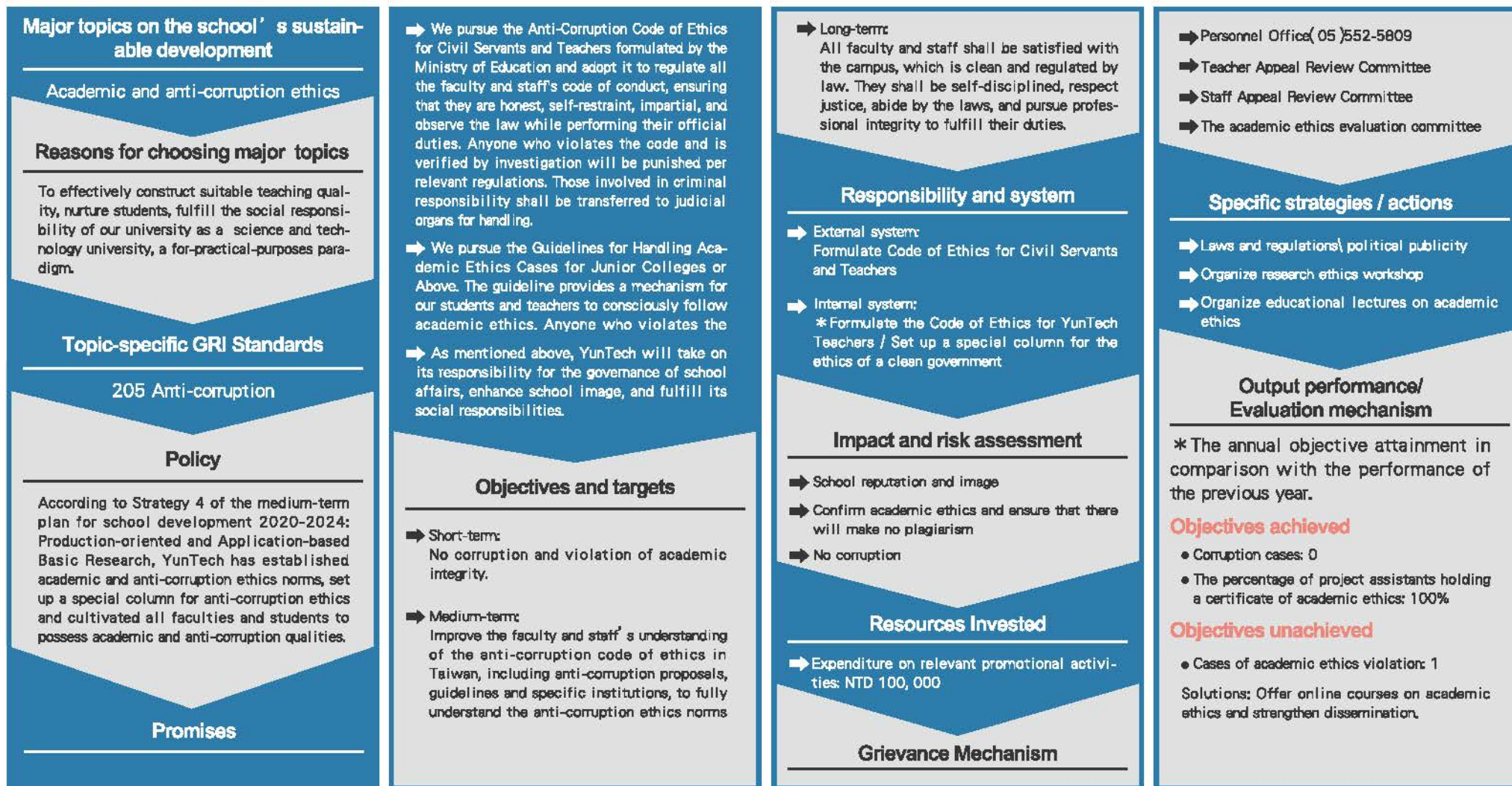
Comparison with the Contents of the United Nations SDGs Project

YunTech promotes economic, social and environmental sustainability via the power of education and knowledge. It has integrated the element of sustainable development into its vision, targets and strategy, **giving priority to Quality Education (SDG4), supplemented by Partnerships for the Goals (SDG17)**. It has practiced 17 SDGs and contributed the most to **SDG8, SDG11, SDG4 and SDG16**. It will continue to make its contribution and proactively tap into other sustainable items in the future.

Chapters	1 POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION	7 AFFORDABLE AND CLEAN ENERGY	8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	13 CLIMATE ACTION	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	
01 Yuntech's vision and strategy				4.3 4.5 4.7 4.a				8.2 8.3	9.4		11.3 11.6 11.7 11.a						17.6 17.9 17.16	
02 Organizational governance and shareholder participation				4.3 4.5	5.1 5.5 5.b 5.c			8.5 8.6 8.8				12.6					16.5 16.6 16.7 16.10 16.b	17.6 17.9 17.16
03 Financial operation performance	1.3		3.4 3.d	4.3 4.5 4.a			8.2 8.6				11.7 11.a							
04 School performance		2.1 2.3 2.4	3.3 3.4 3.5 3.d	4.3 4.5 4.7 4.a		6.3 6.b	8.2 8.3 8.5 8.6	9.4	10.2 10.3	11.2 11.3 11.6 11.7	12.2 12.5	13.3	14.2	15.4			17.6 17.16	
05 Environmental protection performance			3.3	4.a		6.3 6.a 6.b	7.3 7.a	8.4 8.8	9.4		11.2 11.3 11.6 11.7	12.4 12.5 12.7	13.3					
06 Social integration and place-making	1.2		3.4 3.d	4.3 4.4 4.5 4.7			8.2 8.3 8.4 8.6	9.4	10.3	11.1 11.3 11.4 11.a	12.3 12.5 12.8	13.3					16.b	17.6 17.16
Number of corresponding SDGs items	2	3	4	5	4	3	2	6	1	2	7	7	1	1	1	5	3	

2-4 Academic and Governance Ethics

Management policy for major issues and their elements



YunTech has formulated the Code of Ethics for YunTech Teachers, including teaching ethics, academic ethics, ethics of human relationships and social ethics.

1. Teaching ethics: Teachers shall set an example for students and contribute to the well-balanced development of students' healthy personalities.
2. Academic ethics: Teachers shall stick to personal wills and refuse the temptation of personal interests to safeguard academic freedom. Teachers shall make their research results known to the public based on integrity and conscience and take responsibility.
3. Ethics of Human Relationships: Teachers shall strive to maintain a healthy relationship with school staff and students, respecting students' reasonable rights and interests.
4. Social Ethics: Teachers shall participate in activities outside the campus and serve society with the help of their expertise to promote knowledge transmission. They shall avoid improper private interests, though.

For details, please visit the website of the personnel affairs



To handle cases concerning violation of academic ethics, YunTech has set up Academic Ethics Review Committee and has formulated objective and fair review procedures to safeguard the university's reputation and the rights of the reported.



To handle cases concerning violation of academic ethics, YunTech has set up Academic Ethics Review Committee and has formulated objective and fair review procedures to safeguard the university's reputation and the rights of the reported. The Academic Ethics Review Committee applies to full-time teachers and researchers, project teachers paid by the university fund, as well as rare scientific and technical personnel and part-time teachers.

There was one case of violation of academic ethics in our school in 2020. The main reason was that the teacher involved was unclear about academic ethics, which led to the violation. The school is committed to improving teachers' academic quality, encouraging their adoption of diversified channels for promotion, and helping them better understand academic ethics. To dismiss YunTech teachers' worries about academic ethics caused by academic research and promotion, the school not only encourages teachers to participate in online academic ethics courses from the Ministry of Science and Technology but also points out the common errors in academic ethics and the matters needing attention in publishing works at a briefing on teachers' promotion, to enhance their awareness of academic ethics.

The research and industry-academia cooperation programs of YunTech have produced favorable outcomes. As industry-academia research is gaining momentum, teachers and participants must adhere to the principle of integrity and the regulations of research ethics. When our teachers apply for research programs to the Ministry of Science and Technology, project leaders must upload the ethics certificate to the Ministry for future reference. The candidates for project assis-

tants should submit a certificate showing they have studied ethics for six hours. In 2020, a total of 408 employed project assistants were certified, which means 100% of them are qualified in this aspect. Moreover, YunTech invites the Academic Ethics Committee of the National Cheng Kung University and National Chung Cheng University or at least one of them to organize the ethics workshop each semester.

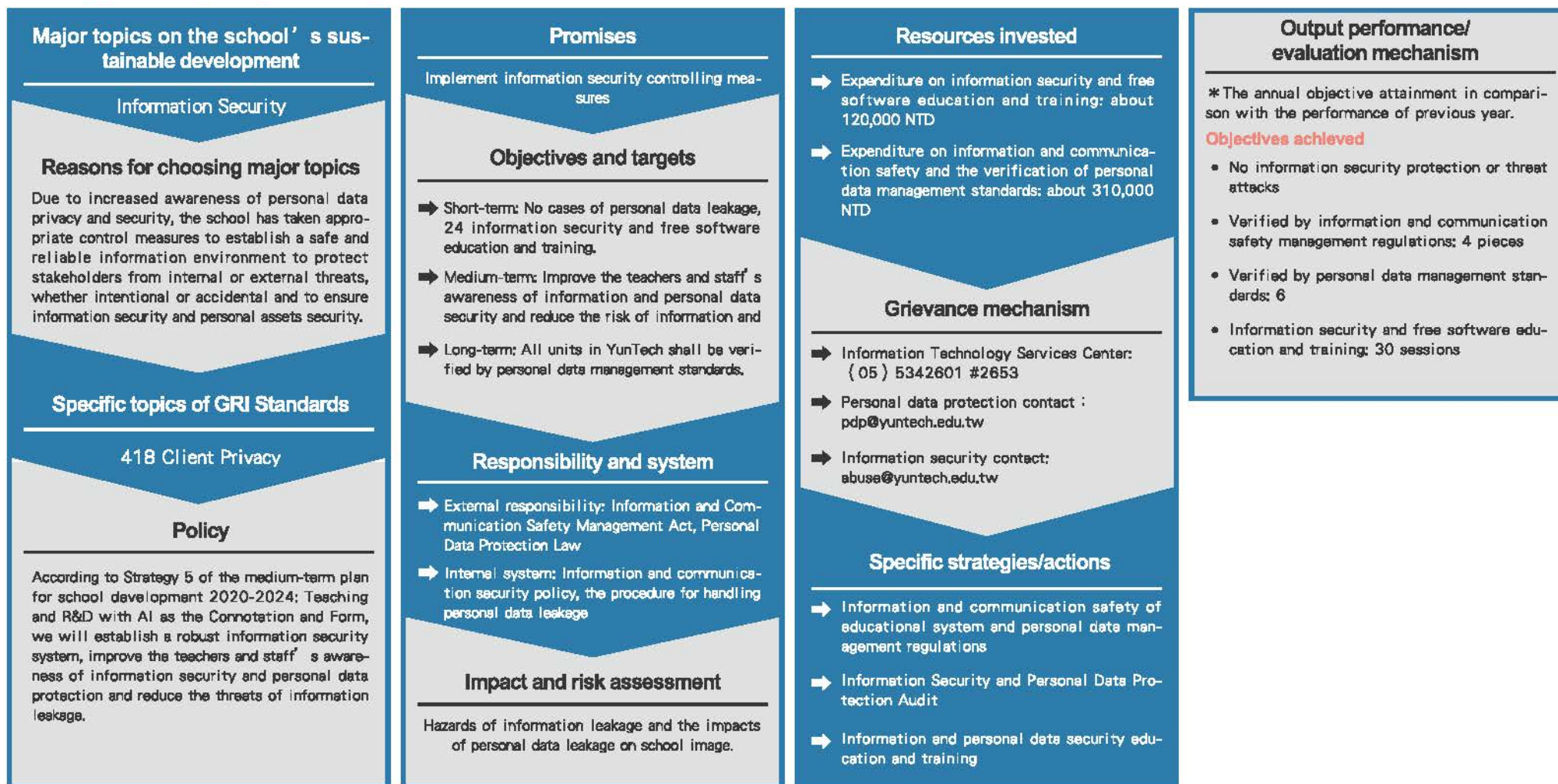
Anti-corruption policy

Taiwan has strived to implement anti-corruption regulations and policies of the UNCAC to integrate with the international community. The Ministry of Education has formulated ethical codes of clean governance for civil servants and teachers, particularly to ensure that its affiliated schools fulfill their duties impartially, work with honesty, exercise administration strictly following the law, and improve the image of Taiwan's government. Civil servants and teachers shall perform their duties per the law with public interests at the core and never use power, methods, or opportunities that their positions provide to seek unjust benefits for themselves or a third party.

The Personnel Office of YunTech provides information on personnel regulations and releases personnel e-newspaper monthly on laws and government ethics on its website. A special column for the ethics of a clean government has set up to provide a reference for the faculty (<https://aex.yuntech.edu.tw/>). YunTech has not seen corruption since 2020

2-5 Information Security

Management policy for major issues and their elements



30 times

Number of Personnel Conducting Information Security and Free Software Education and Training

Units that Passed the Verification Scope of the Safety Management Standard of Capital Communication

- ➔ Information Maintenance and Operation Unit of the Information Technology Services Center
- ➔ Student Learning Process System
- ➔ Electronic Document System
- ➔ Global Information Network Maintenance Operation

1053 people

Number of Participants In Education and Training

0 case

Number of Capital Security Protection or Threat Attack Event (Core System)

Units that Passed the Verification Scope of Personal Data Management Standard

- ➔ Personnel Office
- ➔ Counseling Center
- ➔ Information Technology Services Center
- ➔ Institutional Research and Planning Center
- ➔ Division of Student Assistance
- ➔ Integrated Business Group

0 case

Number of personal data leakage case

Information and Communication Security Policy

To establish a secure and reliable information environment, guarantee confidentiality, availability, and integrity of assets, and ensure proper placement of information and performance of feasible and effective information security practices, the information technology services center shall take appropriate control measures to prevent internal and external intentional or accidental threats. Also, the information technology services center shall remain regularly updated with information security laws and regulations and continue to hold course training to effectively carry out accurate classification of information security events and possible impact range and loss assessment, which will enable them to notify the security administration in the event of an attack and improve the campus' information security. Based on previously performed emergency control measures, corrective and preventive actions have been shown to effectively avoid information security incidents.

To conform to the information security management standard, the contact person of capital security and personal asset protection assigned by all units of the school shall participate in the audit standard education and training, understand the concept and implementation method of the information security management system, assist in assigning internal personnel for the implementation of the rules and regulations of the capital security standards and records, cooperate with on-site inspection and audit, and help reduce information risk to an acceptable level. Other personnel in the units shall receive information security education and training, implement information security protection measures, and carry out self-inspection for information security at regular intervals. Each semester, the information security audit team of the information technology services center shall formulate and execute an audit plan for conducting on-the-spot visits to monitor each unit' s adherence to the rules and regulations of information security standards to improve any security deficiencies and establish a safer and more reliable information security environment.

Information and Communication Security Action

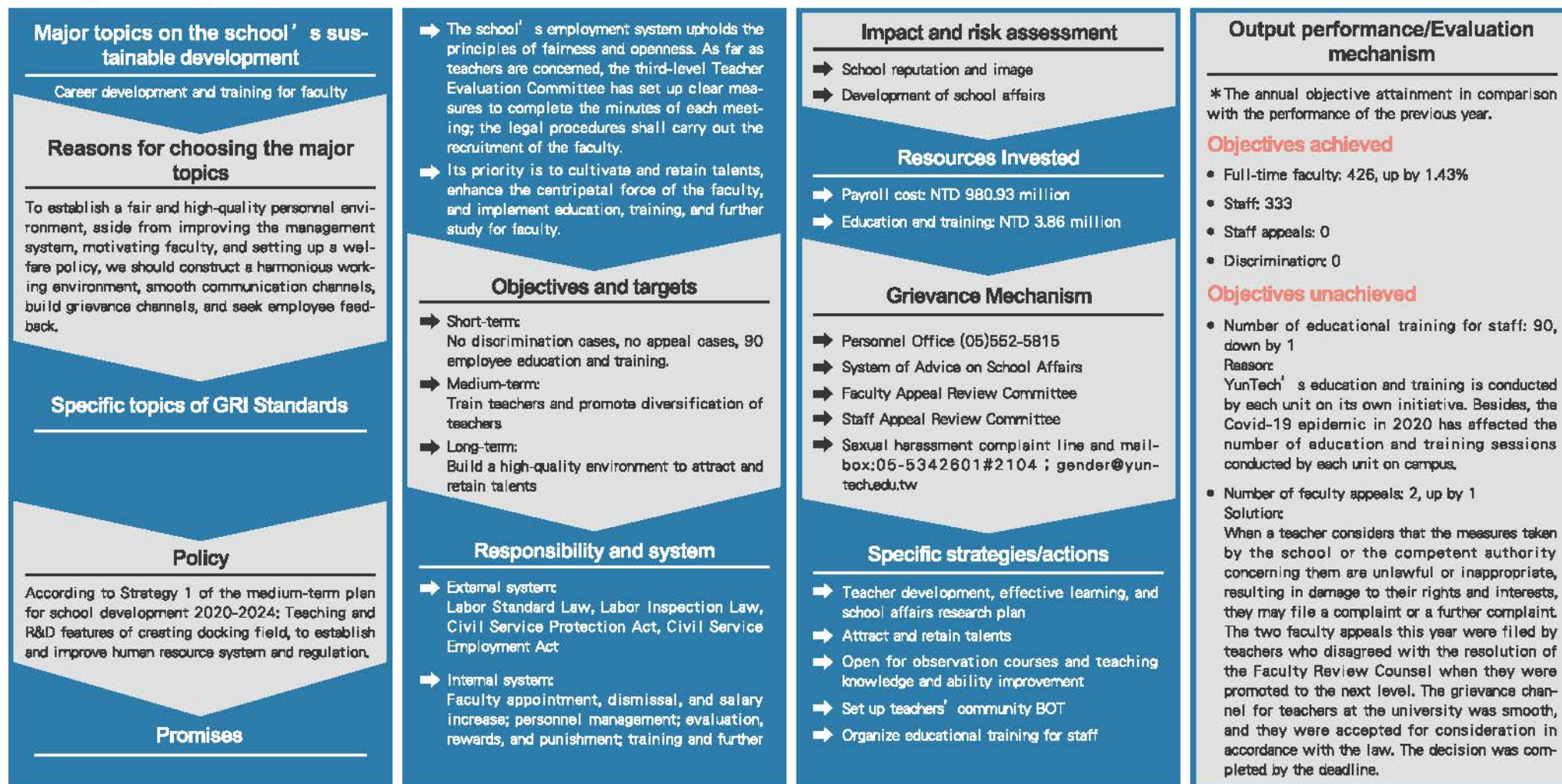
Provide stable power, uninterruptible power system, 24-hour air conditioning and fire protection system for network equipment and servers in the information center; ensure a high-quality operating environment for hardware and software equipment in the network room. The servers and database detect the health status of the main servers, storage, web page, IIS Log and Web Page Hit Count through the log management tool (Splunk).

Data message related to information security and personal data security is placed on “Information Security and Personal Data Protection Website” and “YunTech Cloud Collaboration Website/Information and Communication Safety Management Zone” for the faculty and staff’s reference. YunTech also promotes the use of legitimate software and antivirus software on campus. Verified by the “Personal Data Management Standards for Education System” and “the Information and Communication Safety Management Regulations for Education System” of Information Security Certification Body (ISCB), YunTech will gradually change or increase the verification scope per its information security maintenance plan or current implementation situation.

Action	Performance
1. Regularly implement vulnerability scanning	Complete the vulnerability scanning of 3,394 devices, 35 website programs.
2. Regularly implement Information Security and Personal Data Protection internal auditing.	Audit 5 administrative units, 4 academic units and 1 research and industry-academia units
3. Regularly classify information or assets.	A total of 27 administrative/teaching units, 80 administrative systems and 4 non-administrative systems
4. Regularly organize information security and free software education and training	30 sessions/ 941 participants
5. Conduct the verification of ISCB’s “Personal Data Management Standards for Education System.”	Personnel Office/Counseling and Consultation Center / Information Technology Services Center/Institutional Research Planning Center/Division of Student Assistance/Integrated Business Division
6. Conduct the verification of ISCB’s “Information and Communication Safety Management Regulations for Education System.”	Information Maintenance and Operation Unit of the Information Technology Services Center/Student Learning Process System/Electronic Document System/School Global Information Network Maintenance Operation

2-6 Faculty Career Development and Training

Management policy for major issues and their elements



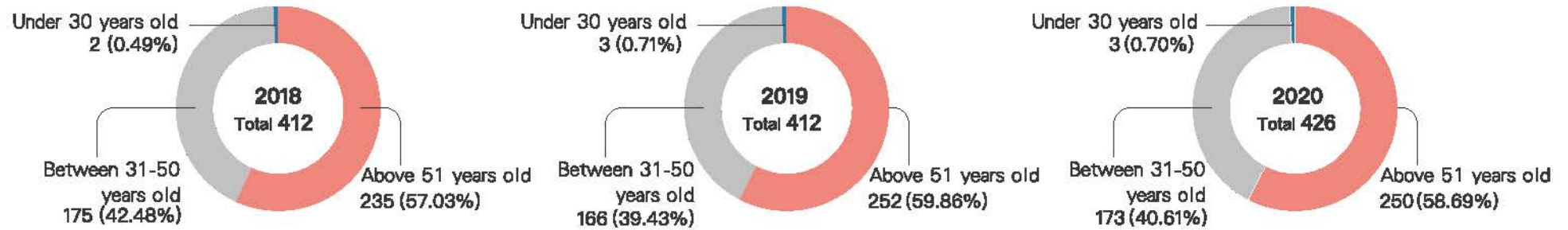
Workforce allocation

To elevate the overall competitiveness, meet the needs of school affairs development, plan and improve the administration system and promote human resource system and regulations, a fully functional personnel system and regulations have been established to recruit teachers with a high sense of morality and profound knowledge and administrative staff with service consciousness. Based on human rights equality, YunTech's talent recruitment policy shows no discrimination based on gender, race, age, political orientation, marriage, and family status, making the staff more diversified. The number of faculty (excluding full-time teachers and staff) is 759; among them, people who possess certification of physical and mental disorders are 31, with the disability proportion of 4.08%, which complies with the provisions of the law (3%). The number of faculty and staff is based on the database of technical colleges and universities as of October 15 of each year, and the data is used for statistical analysis (excluding project personnel in the staff section).

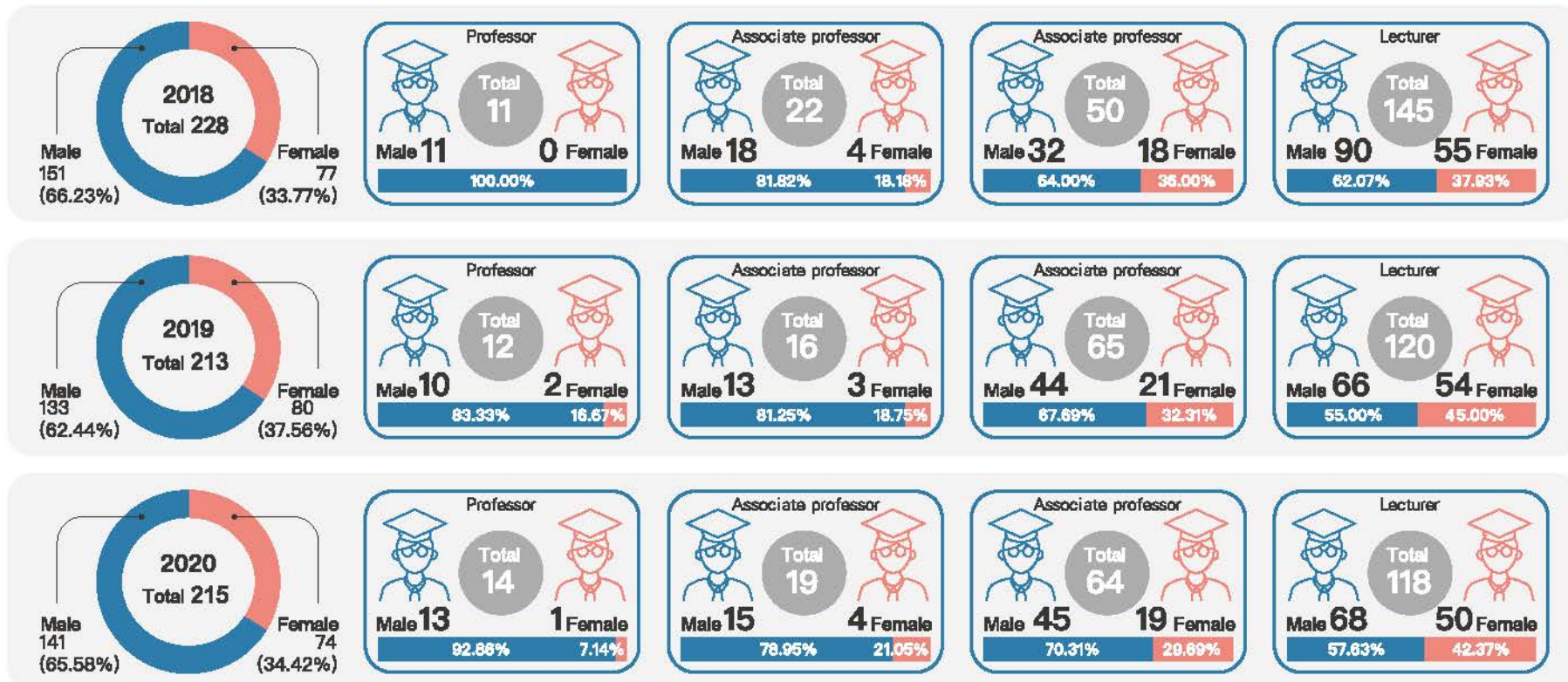
Full-time faculty members



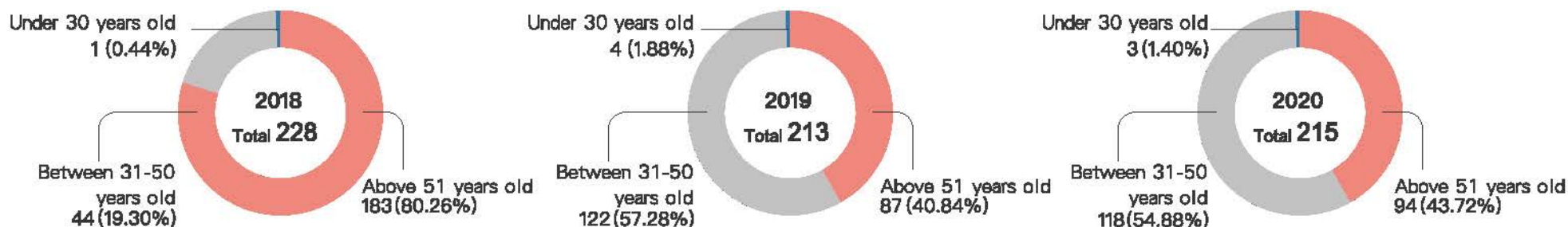
Statistical distribution on age of full-time faculty members



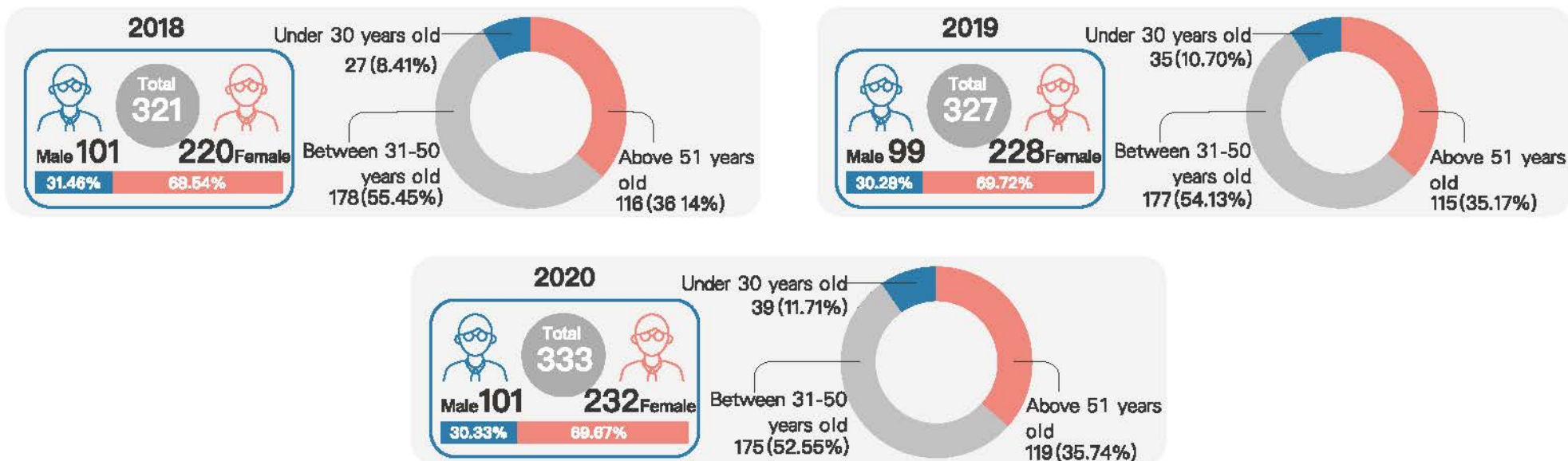
Part-time faculty members



Statistical distribution on the age of part-time faculty member

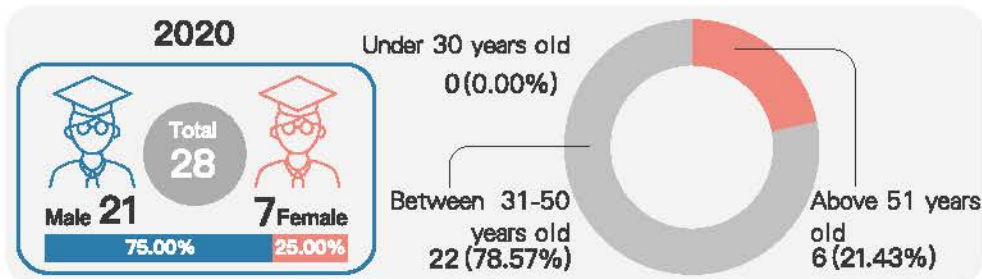
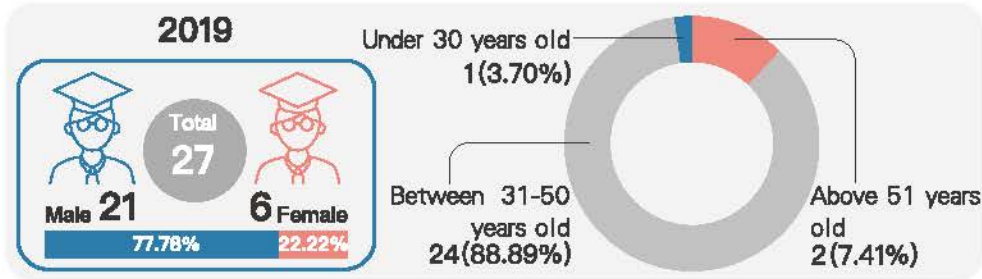
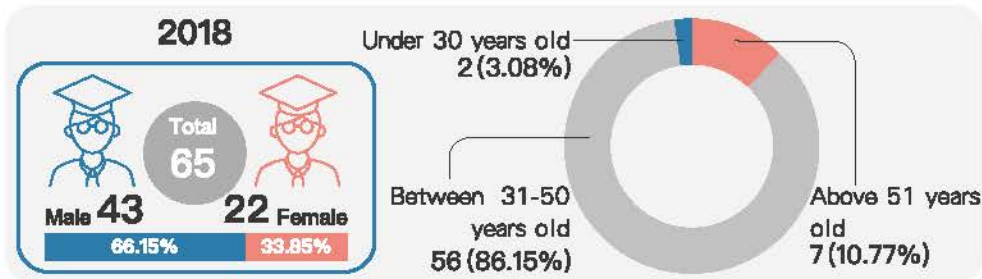


Staff

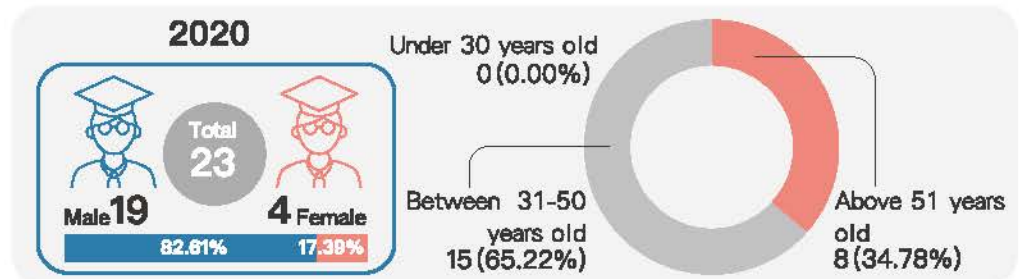
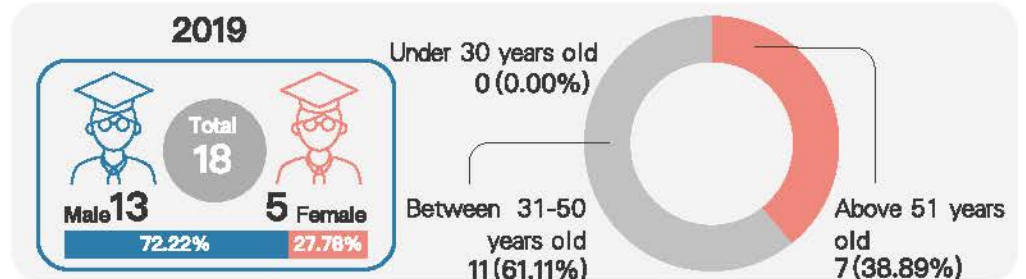
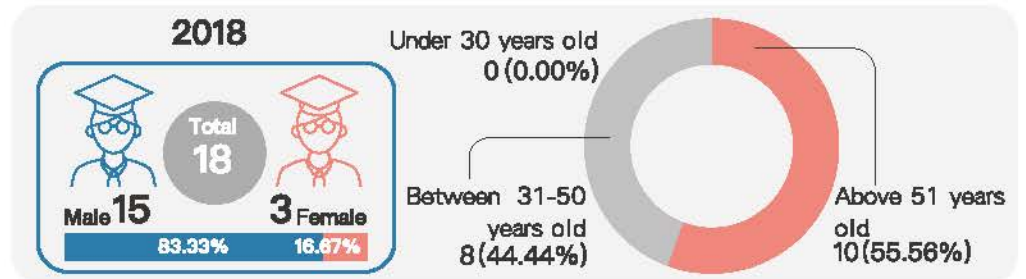


New and Resigned employees

New faculty members

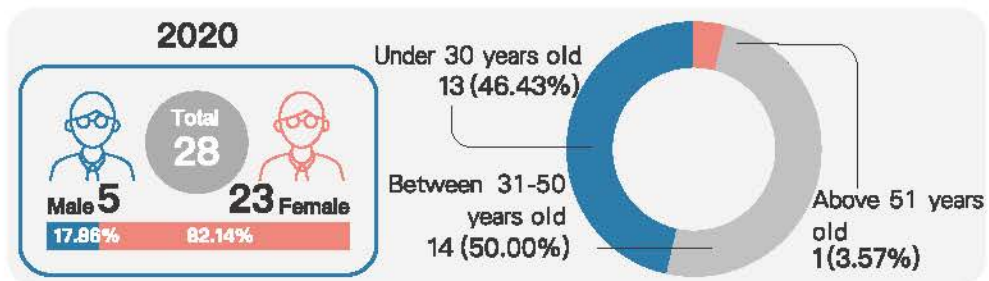
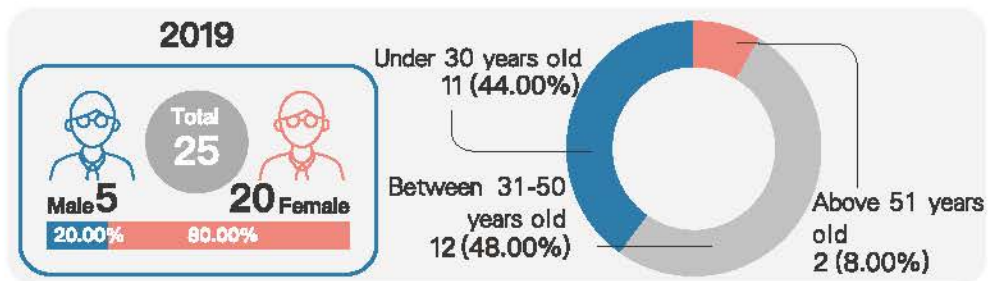
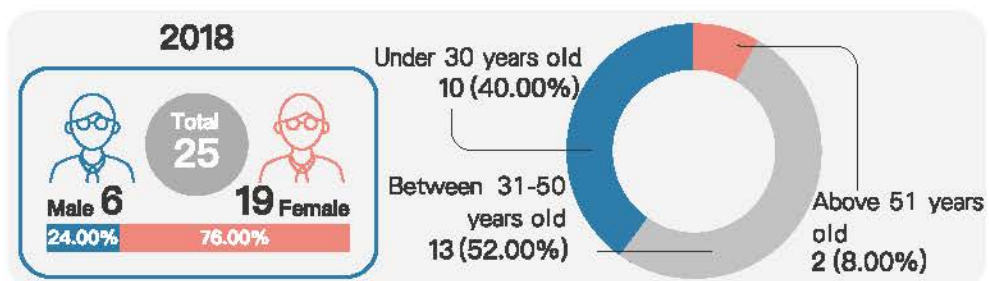


Resigned faculty members

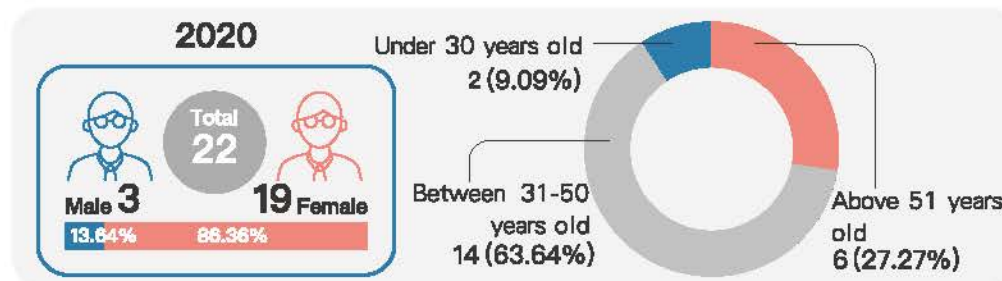
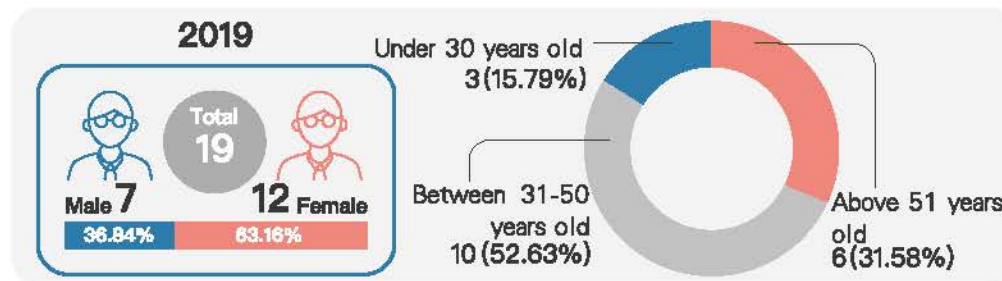
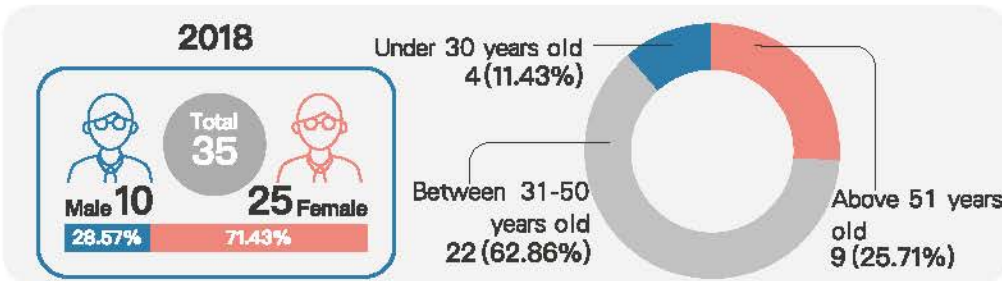


New and Resigned employees

New staffs

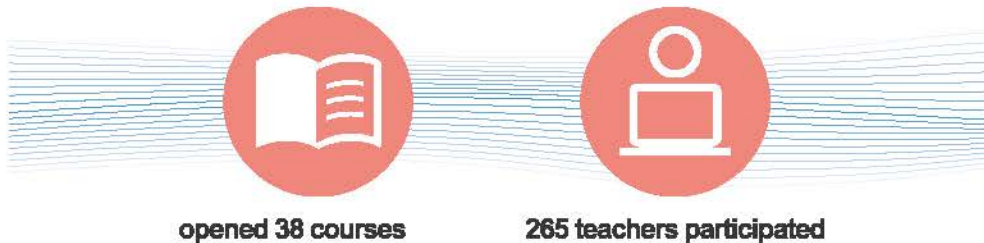


Resigned staffs



Faculty Training

Teacher Classroom Observation



YunTech's classroom observation mechanism is aimed at implementing a cycle of teaching quality assurance, and to provide on-site lesson observation by outstanding or excellent teachers in order to offer clear and specific teaching and learning models, to make good use of our existing teaching resources, and to ensure the improvement of teachers' teaching and students' learning effectiveness.

Teacher's Community BOT

In order to promote the professional and intellectual growth of teachers and encourage teachers to form communities on their own initiative, YunTech takes the lead in organizing teacher learning activities to promote communication, from unfamiliarity to familiarity. After the momentum of the teacher community system is developed, teachers will nominate each other to become the leader and run their own business. YunTech has established 14 teacher communities with 216 teachers (50.70% of all faculties), in which teachers get to know each other and exchange teaching experiences.

New teaching and learning classroom which connects all the teachers

Recruiting like-minded teachers to form a community of teachers



Staff Training

YunTech annually schedules executive education and training courses on basic functions, professional growth, core functions and career development, management skills, policy, statutory and democratic governance values, etc. Based on the professional division of labor, YunTech adopts a multi-learning model for its education and training. Each unit conducts the education and training within the university on its own initiative and responsibility. All staff members are allowed to participate in various types of physical courses and online digital courses on their own. (including staff on the establishment and staff of the University Foundation, but excluding police officers, teaching assistants and staff members). Statistics are based on the number of training hours (including e-learning and physical courses on and off campus) uploaded to the "Lifelong Learning for Public Employees" website for the year 2020, of which the university conducted a total of 90 training sessions.

Classification	Gender		Employee Categories	
	Male	Female	In-staff worker	Worker for School Affair Fund
Number of people	60	187	90	157
Average training hours	33	41	56	29
Person-time of education and trainin	843	3,304	2,072	2,075

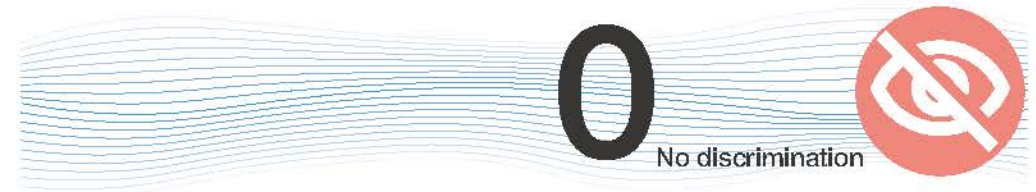
Welfare and Grievances of Faculty and Staff

The welfare of Faculty and Staff

YunTech staff includes teachers, civil servants, teaching assistants, military training instructors, rare scientific and technical personnel, police officers, technicians, and staff and project staff of the school fund outside the establishment. The salaries of the in-staff employees are paid in accordance with the law, while the salaries of the out-staff employees are set according to the complexity and difficulty of the work, the level of responsibility, and the qualifications required, and the employer then considers the employee's expertise, performance, contribution, team spirit, etc. The salaries paid are higher than the national statutory basic wage, and the labor insurance premiums and pensions are provided by the regulations.

YunTech continues to pay compensation per the current standard of treatment for all types of personnel and complies with the statutory basic wage requirements. 98.15% of personnel are currently paid beyond the basic wage, and 1.85% of employees are paid the basic wage, and the ratio of the minimum salary of our employees to the minimum salary in Taiwan is 1:1. YunTech also considers the price index, the economic growth rate and the salary level of private companies to adjust the salary system of employees, hoping to facilitate the basic living of employees and achieve good economic quality.

Non-discrimination~Emphasis on equal rights at work



There are various non-discriminatory personnel policies.

1. Candidates will not be treated differently when attending job recruitment based on religion, gender, or age.
2. The salary system does not distinguish between gender, religion, or age, and recruits are paid fairly according to the salary schedule.
3. Our employees enjoy equal treatment in employment security such as equal salary promotion system, promotion and training opportunities.
4. All rights and benefits enjoyed by the employees are given equally without any difference.

Freedom of association~The establishment of

YunTech aims to coordinate labor-management relations, promote labor-management cooperation, and improve work efficiency. Its basic spirit is to encourage voluntary consultation and cooperation between employers and employees to enhance communication between them, reduce confrontation and conflict, enable them to reach a consensus, and then pool their wisdom and potential to work together to implement the resolution.

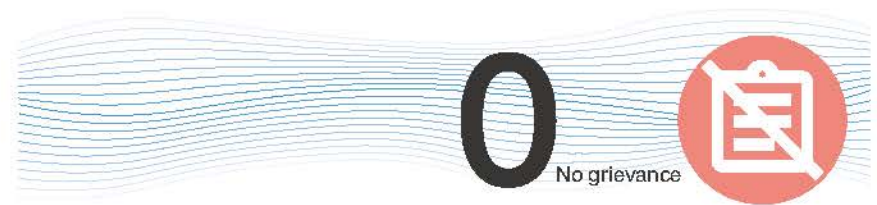
Grievances of Faculty and Staff

The Grievance Channel of Teachers~Protection of Teachers' Rights and Benefits

To protect the rights and interests of teachers, promote campus harmony, and fulfill the function of education, the Teachers' Grievance Review Committee is established. Suppose a teacher feels that the measures taken by the school regarding them are illegal or inappropriate, which may harm their rights and interests. In that case, they may file a complaint, and the teacher complaint review committee of the school will handle the review of the teacher complaint cases.

The number of grievances for the 108 academic years is two because teachers are dissatisfied with the resolution of teacher promotion and the grievance due to workplace bullying. After the Teacher Grievance Review Committee considered the two cases, it decided that "the grievance was dismissed without reason" and sent a formal reply letter to the teachers.

The Grievance Channel of Staff~Protection of Staff's Rights and Benefits



The "National Yunlin University of Science and Technology Staff Grievance Review Committee Organization and Review Points" is established. Employees who feel that their rights and interests are affected by improper management measures or disposition of work conditions taken by the university should file a written grievance within 30 days from the day after the management measures or disposition arrive.



03



Financial Management

Major Topics in Chapter

Financial Governance



Management Policy for major issues and their elements

The major theme of sustainable development of the university

Financial Governance

Reasons for choosing major themes

We move with the developmental trend of higher education and the purpose of improving the quality of education. The planning and allocation of funds are crucial to the overall development of school affairs, so as to ensure the sustainable management of school funds and improve the efficiency of school development.

GRI guidelines for specific topics

201 economic performance

Policy

According to the "Strategy 5: The planning and allocation of funds to reduce management risk" of the school's 2020-2024 Mid-Term Development Plan.

Commitment

➔ The school fund should examine the financial income and expenditure of the fund and define the financial objectives, to facilitate the managers in making decisions on the allocation of

resources and in evaluating the general financial status and cash flow, thus improving the operating performance.

➔ In order to implement the "continuous innovation and change of school affairs", with the innovation of school affairs and the reform of the system as two dimensions, we ensure the stable and sound development of school affairs and maintain the long-term operation of the school to achieve the school to create an innovative, diverse, friendly, and sustainable campus goal.

Objective and goals

➔ Short-term: We publish one Financial Planning Report, one School Fund Performance Report and the Annual Accountability Report of the University.

➔ Middle-term: The publicity of higher education should be enhanced in the school management. We implement teaching innovations and improve teaching quality on the students' learning side. On the social environment side, we fulfill social responsibility.

➔ Long-term: We strengthen infrastructure construction and sustainable campus management.

Responsibility and mechanism

➔ External responsibilities: Regulations on establishing national university funds, management and supervision measures of national university funds.

➔ Internal system: Endowment Management Committee

Impact and risk assessment

School management and development are hindered.

Resource investment

About NTD \$2.8069 billion (including university budget and overall development funds of Ministry of Education, etc.)

Appeal mechanism

➔ System of advice on school affairs

➔ Endowment Management Committee

➔ Accounting and Statistics Office's special line and mailbox: 05-5342601#2570-2577, #2581-2589; scx@yuntech.edu.tw

Specific strategies/specific actions

➔ Action Plan for "Big Data-Driven University Affairs Development"

➔ The "Accountability Report of the University" (Accountability Report)

➔ the "Financial Planning Report"

➔ the "School Fund Performance Report"

➔ the "Budget Book of the Affiliated Unit of the School Fund"

➔ the "Final Account Statement of the Affiliated Units of School Fund"

Output performance/evaluation mechanism

* Achievement of annual goals is a comprehensive comparison of previous years' performance

Achievements

• One financial planning report

• One school fund performance report

• The annual accountability report of the university

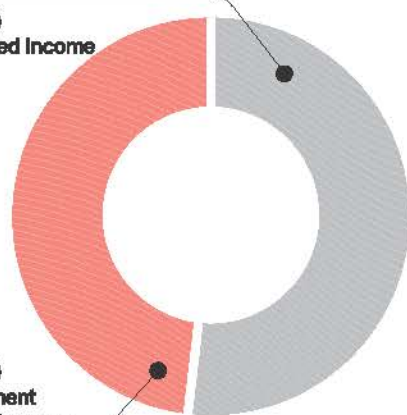
3-1 Financial Performance

NTD 1,408,705,837

(51.85%)
Self-raised Income

(48.15%)
Government
subsidy income

NTD 1,308,279,312

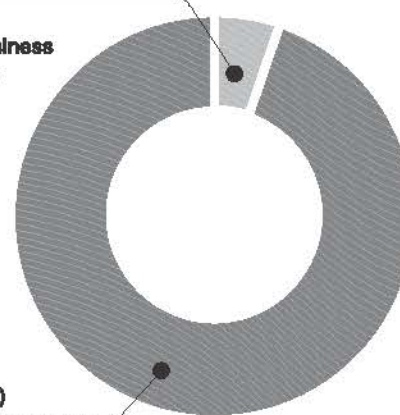


NTD 142,613,286

(5.25%)
Non-business
revenue

(94.75%)
Business revenue

NTD 2,574,371,863

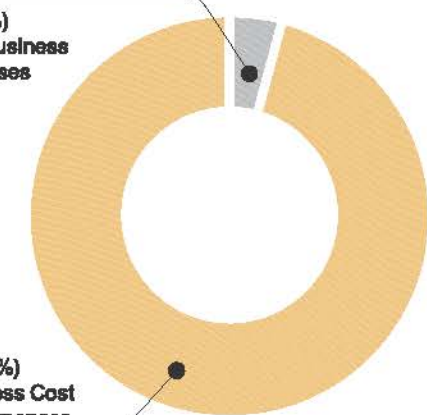


NTD 117,805,519

(4.20%)
Non-business
Expenses

(95.80%)
Business Cost
and Expenses

NTD 2,689,103,493



Perfect planning and allocation of funds are related to the overall development of school affairs. For the self-positioning and development of the university, each unit formulates basic indicators and the expected benefits, striving to achieve its desired outcomes through various funding programs. The Accounting and Statistics Office compiles financial statements of YunTech and then reports to the Ministry of Education and posts on Accounting and Statistics Office website for future reference.

In 2020, the performance of YunTech was excellent, with revenue growth of 8.25%. This reflects that the strategy of the university to promote industry-academia innovation and the vision to become a prestigious university featuring innovative and cooperative education. Because of the recognition from the population and the donations from different sources such as private enterprises, alumni, parents, and other stakeholders, the donated income of the university has increased by 8.47%. However, the cost of teaching research and training, the cost of cooperation between industry and learning, and the input cost of student public funds and incentive funds are increasing year by year to achieve the goal of cultivating qualified professionals with humanistic care and perfect support for the disadvantaged.

Year	Item	Tuition and Fees	Industry-academia cooperation income	Extension education income	Rent and royalties	Ancillary income	Financial income	Donated income	Others	Total
		2018	Total (NTD)	516,305,827	624,228,064	20,395,311	8,393,047	1,183,571,150	24,960,478	22,263,917
	The growth rate compared with last	-0.73%	22.93%	12.92%	6.10%	19.97%	-0.39%	46.96%	21.16%	15.53%
2019	Total (NTD)	504,118,311	682,421,485	18,012,920	11,981,520	1,263,760,121	24,605,452	38,812,303	82,741,373	2,626,453,485
	The growth rate compared with last	-2.36%	9.32%	-11.68%	42.76%	6.78%	-1.42%	74.33%	5.77%	5.98%
2020	Total (NTD)	493,990,496	738,746,452	12,481,511	15,480,623	1,307,562,339	20,649,810	42,099,512	85,974,406	2,716,985,149
	The growth rate compared with last	-2.01%	8.25%	-30.71%	29.20%	3.47%	-16.08%	8.47%	3.91%	3.45%

Year	Item	Teaching research and training cost	Industry-academia cooperation cost	Extension education cost	Management and general affairs cost	Research, development	Student fees and incentive	Others	Out-of-service expenses	Total
		2018	Total (NTD)	1,485,450,025	603,711,329	16,016,738	244,743,455	0	115,366,273	5,546,318
	The growth rate compared with last	14.24%	19.97%	8.66%	4.91%	-100.00%	35.89%	3.14%	12.01%	15.13%
2019	Total (NTD)	1,584,120,310	663,420,147	15,367,014	258,767,609	0	119,116,322	6,006,579	111,435,362	2,738,233,343
	The growth rate compared with last	5.30%	9.89%	-4.06%	5.73%	0.00%	3.25%	8.30%	20.80%	6.83%
2020	Total (NTD)	1,586,688,159	728,727,881	8,643,523	267,857,086	0	111,143,806	6,043,038	117,805,519	2,806,909,012
	The growth rate compared with last	0.16%	9.84%	-43.75%	3.51%	0.00%	6.69%	0.61%	5.72%	2.51%

YunTech used the subsidy from the Ministry of Education and the income generated to provide student aid measures. In the academic year 108, the total number of students who benefited from this was 4,231 students and the amount of benefit given was about NTD \$58.54 million. There was no gender preference between the applicants for the aid measures and the number of subsidies.

Categories of financial aid measures	Aid person-time		Total	Ratio	Aid Total (NTD)		Total (NTD)	Ratio
	Male	Female			Male	Female		
Grant for disadvantaged college students	215	206	421	9.95%	2,928,500	2,830,000	5,758,500	9.84%
Need-based financial aid	8	12	20	0.47%	384,000	576,000	960,000	1.64%
Work-study grants	964	1,059	2,023	47.81%	12,330,728	15,121,372	27,452,100	46.90%
Graduate scholarship and grants	1,091	564	1,655	39.12%	14,730,445	7,806,228	22,536,673	38.50%
Categories of financial aid measures	29	22	51	1.21%	526,000	354,000	880,000	1.50%
Preferential prices on accommodation	33	28	61	1.44%	530,400	418,934	949,334	1.62%
Total	2,340	1,891	4,231	100.00%	31,430,073	27,106,534	58,536,607	100.00%

Student financial aid distribution in academic year 108

In addition to the annual budget of books, instruments, and equipment, YunTech actively strives for the implementation of Optimizing the Student-Faculty Member Ratio, Enhancing Innovative Teaching, Solid Teaching and Research Foundation, Deepening the Connections of Industry-Academia and Higher Education Sprout Project to improve equipment, cultivate talents of students and promote the cooperation between industry and science.

Year	Books, instruments, and equipment (NTD)	Growth Rate
2018	267,001,370	33.07%
2019	289,308,390	8.35%
2020	269,653,621	-6.79%

Expenditure and Growth Rate of books, instruments, and equipment 2018-2020

3-2 The Relationship Between Financial Performance and R & D Innovation

The following centers are selected as the research centers of Global Taiwan's ten characteristic fields of the Ministry of Education of Higher Education Sprout Project:

👑 Intelligent Regional Design Service Research Center

👑 Intelligent Identification Industry Service Research Center

To approach the vision of the new type of University of Science and Technology in 2022, cultivate the future employment function, cultivate the future competitiveness education, and lead the theoretical study with practice, the mechanism of energy classification of production, research and development, project family operation, and new-type human resource cultivation are formulated. Since the establishment of 27 PBL research centers in 2018, 1,394 productions, education and planning projects have been undertaken from 2018 to 2020, with a total amount of NT\$ 467.02 million. In addition, our university has formed an industry college to cooperate with the industry and co-ordinate the talents and science and technology centers of each college. It provides education and training for enterprise development courses, cultivates the R & D energy and culture of enterprises, develops the ability demand of industrial talents in the region, and contributes to economic development and employment promotion.

Year	Productions, education and planning projects (cases)	Productions, education and planning projects (NTD)
2018	447	16,786
2019	516	13,192
2020	431	16,724

Industry-Academia Cooperation Results 2018-2020

To carry out the leading and practical technical research in academic circles, cultivate students' technical and professional abilities, and enhance their professional skills, each PBL Research Center has employed 25 industry-academia project teachers. Through question-oriented, interest-oriented, and team cooperation-oriented teaching, students can set up project-based PBL Industry Practice Course for their own project families to solve the practical problems of the industry. Intelligent Regional Design Service Research Center and Intelligent Identification Industry Service Research Center are selected as the research centers of Global Taiwan's ten characteristic fields of the Ministry of Education of Higher Education Sprout Project. Intelligent Regional Design Service Research Center focuses on cross-domain integrated development with science and technology management as the core and smart urban and rural areas as the research axis. Its main service objects are enterprises and government, and its core areas are school construction, local industry, and urban and rural communities. While, Intelligent Identification Industry Service Research Center aims at the key technologies of smart identification and intelligent medical image aided diagnosis technology, and cooperates with Industrial Technology Research Institute, Capital Policy Council, China Steel, Cheng Shin Tire, Unicharm, and other hospitals such as National Taiwan University Hospital, Cheng Kung University Hospital, Taipei Veterans General Hospital, and Hualien Tzu Chi Hospital, in order to promote the social and economic development and health.

To promote the horizontal integration and cross-domain cooperation of PBL research centers, the office of industry-academia cooperation regularly holds PBL learning salons every month so that each PBL research center and each department of the school can share each other's core technology and production and learning achievements. In addition, it invites enterprises to exchange and learn together to foster the trend of technical cooperation and exchange.

Subsidy Plan of Zhuo -Zhang Zong Foundation

Despite the rapid changes in the world situation and the economy in recent years, many entrepreneurs are still striving to create a new landscape in the spirit of pragmatism and perseverance. The president leads our faculty and students to shoulder the mission of assisting enterprise transformation and promoting industrial upgrading. In 2019, with the support and donation of Consortium Legal Person Mr. Zhuo -Zhang Zong Education Foundation, Zhuo -Zhang Zong Social Welfare Research Center was established in the University. In the form of industry-academia cooperation combined with the public social welfare, it supports the industry-academia cooperation between small and medium-sized enterprises striving for the upper reaches and YunTech. Subsidizing funds and cultivating students' contact with practical problems improves the competitiveness of these enterprises, promotes the public welfare spirit of Consortium Legal Person Mr. Zhuo -Zhang Zong Education Foundation, and creates the best paradigm for university and social welfare funds.

Our university has set up the Key Points of Implementation of Subsidy Scheme of YunTech Zhuo -Zhang Zong Social Welfare Research Center to implement the combination of industry-academia cooperation and public welfare. Taking Expected Contribution of Corporate Social Public Welfare Value as the project subsidy selection item, it means that the enterprises applying for the project subsidy need to plan their achievements of industry-academia cooperation program that meet at least three categories of sustainable development goals of the United Nations and cooperate with the annual results conference to share the cooperative R & D achievements. Throughout 2020, among a total of 60 applications, 58 projects have been subsidized with NT\$ 7.87 million, which has reached 155 projects of the 16 goals of the United Nations Sustainable Development Goals (SDGs). Among them, quality education (SDG4) accounts for the largest proportion, followed by decent work and economic growth (SDG8) and sustainable cities and communities (SDG11).

To continuously stimulate our teachers to organize Industry-Academia cooperation courses, demonstrate the specific achievements and combine the public welfare spirit of the United Nations Sustainable Development Goals (SDGs), Yuntech supports industry-academia cooperation projects that can be implemented in industrial development and social services. In addition, we encourage industry-academia cooperation to combine student learning, practical promotion of courses and physical achievements so as to achieve the goal of strengthening the foundation of teaching and research and deepening the industrial chain.





04



Education Performance

Major Topics in the Chapter

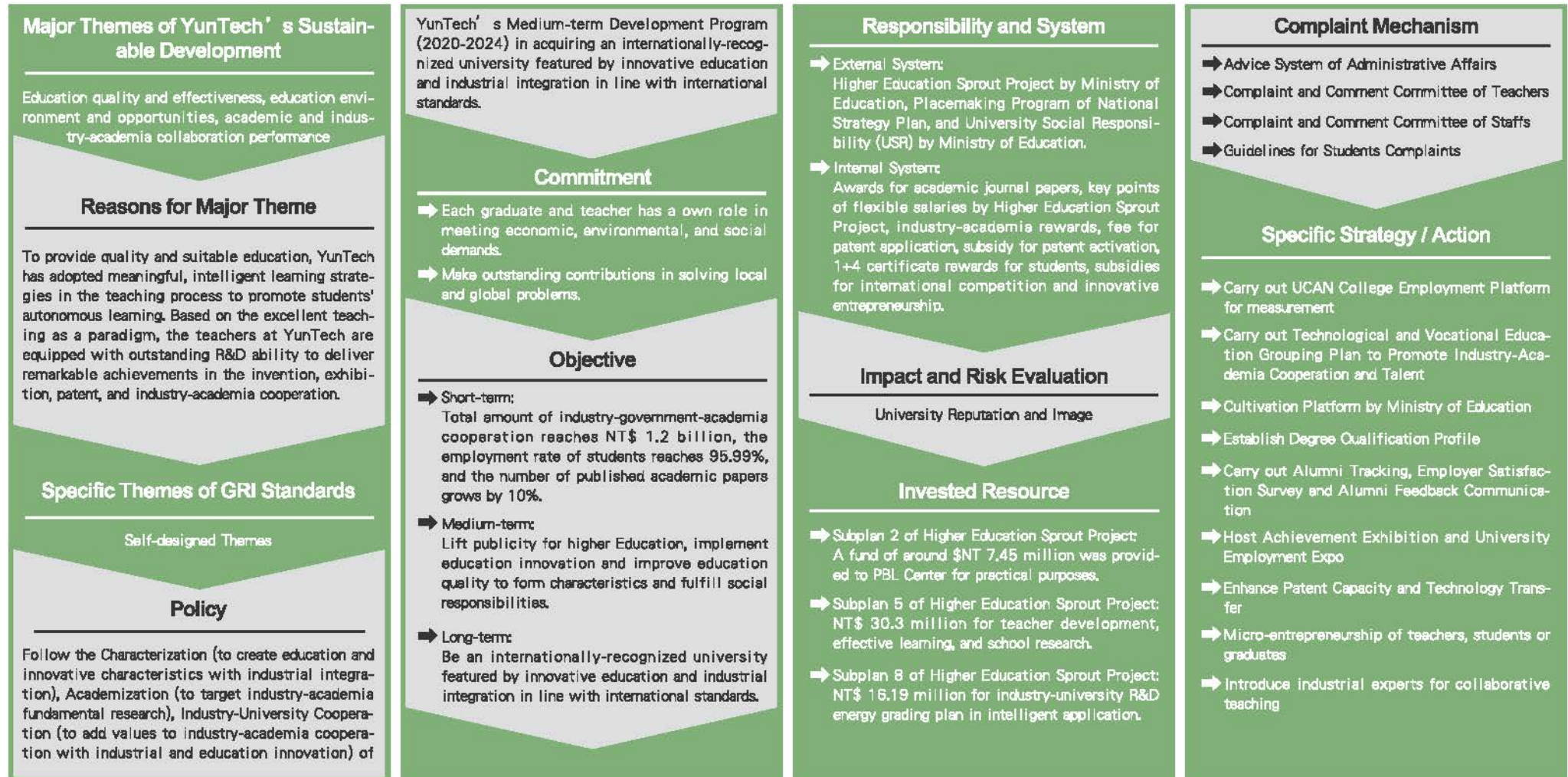
Teaching Quality and Effectiveness Education

Environment and Opportunities

Academic and Industry-academia Collaboration Performance



Management Policy for major issues and their elements



Management Policy for major issues and their elements

Output Performance / Evaluation Mechanism

* A comprehensive comparison between the achievement of annual goals and last year's performance

Targets that have been reached

- Total amount of industry-government-academia cooperation:
NT\$ 1.27039 billion in total, risen by NT\$ 53.16 million
- Number of Industry- Government-University Collaboration Projects:
944 in total increased by 1.29%
- The employment rate of students:
95.99% increased by 0.79%
- The average salary of students:
NT\$ 41,770, the same as the year before
- Number of published academic papers:
685 in total increased by 20.81%
- Number of start-ups:
9 in total increased by 4
- Times of special education and life education activities:
350 in total increased by 69.08%



4-1 Innovative Teaching and Learning Effectiveness

By implementing education innovation and improving teaching quality, YunTech has delivered the following results:

- 📖 YunTech's characteristic PBL Research Center and "curriculum reform" of mature courses
- 📖 Smart education to ensure learning quality
- 📖 Digital learning with no limits
- 📖 25 MOE Teaching Practice Research Programs applied successfully (with a pass rate of 56.82%)

New Teaching System: Characteristic Development of YunTech

Cross-disciplinary collaboration and homogenization of courses at YunTech, increasing the percentage of cross-disciplinary learning by 15.09%

By linking learning and employment through PBL, YunTech highlights academic and industrial advancement. In 2020, the courses established by cross-faculty teachers included X+1, Singularity, and cross-domain courses. 3,363 students enrolled in those courses, occupying 50.64% of university students. Moreover, according to the analysis, cross-disciplinary learning improved students' grades with a widening gap.

To strengthen students' abilities in applying knowledge and skills into capabilities of social practice, YunTech has encouraged the practicing time of curriculums. The deepening of curriculums can provide more practice opportunities at different sites and improve students' participation in learning. In 2020, a total of 82 X+1 deep-bowl courses were opened with 995 students' enrollment.

Smart Education: Ensured Learning Quality

Big Data analytics to implement precision education for better education stability

Besides the registration rate, the stability of newly enrolled students after admission should also be emphasized during the operation of universities. In particular, with fewer children, the continuation rate of newly enrolled students is an important indicator to run a school. Hence, to encourage independent online learning of students, YunTech accurately tracks students' learning process through an online database, establishes learning norms for early warning, and offers guidance frequently. Moreover, with a personalized learning intervention mechanism, YunTech integrates students' learning difficulties and prepares online teaching materials of 50 courses for self-study. To help students avoid making mistakes on the same subject, YunTech collects teaching assistance records for online live problem-solving and difficult units that often puzzle students to compile digital textbooks for key points.

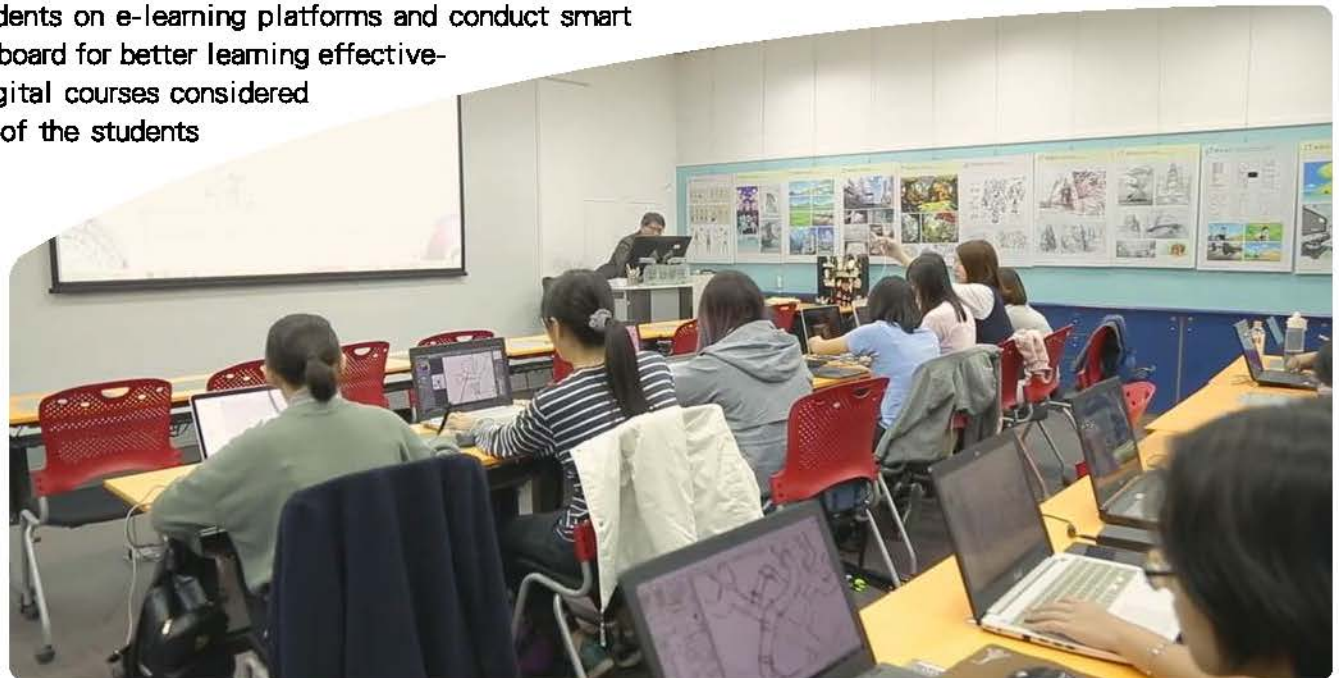
Education innovation should not be limited to changes in curriculums and teaching methods. Recently, many teachers have focused on the relationship between the teaching scene, innovative methods and students' behaviors. The traditional teaching scene cannot match with innovative methods due to the limitations of hardware settings. YunTech has always encouraged the teachers to understand the classroom and teaching interaction from the perspective of teaching, environment construction and students' learning trajectory. During the past two years, this university has introduced nine kinds of Classroom Observation Tools and renovated 24 teaching spaces to better support teachers and students of 142 courses. According to the results, the average score of 3,653 students (64% of the total) using the smart learning spaces increased compared to the number before the innovation.

Digital Learning: No Limits in Learning

Taking e-learning as the cornerstone of developing intelligent education

YunTech encourages teachers to make their e-learning materials. A total of 60 distance learning courses have been opened in and out of YunTech, of which 20 have passed the digital course certification of the Ministry of Education with 8,375 times of attendance. YunTech tracks and analyzes the learning trajectory of students on e-learning platforms and conduct smart education to involve early warning robot and dashboard for better learning effectiveness. In 2020, 87.7% of freshmen enrolled in digital courses considered online learning helpful. In addition, over 88.2% of the students believed that precise guidance was useful.

By cooperation with National Yang Ming Chiao Tung University's Ewant Platform, YunTech has 63 courses on the MOOCs platform for students and professionals in and out of Taiwan. The online teaching materials have been used 187,995 times. In 2020, those courses were attended by 5,195 students, while 2,278 students have already passed.



4-2 Students Employment Outcomes

108 Academic Year



84.36 %
Completion rate



78.69 %
Completion rate for graduates-to-be

Results of the 2020 Survey 107 Alumni Flow One Year After Graduation Survey.



82.55 %
Questionnaire return rate



95.99 %
The employment rate of students



NT\$41,770
Average monthly salary



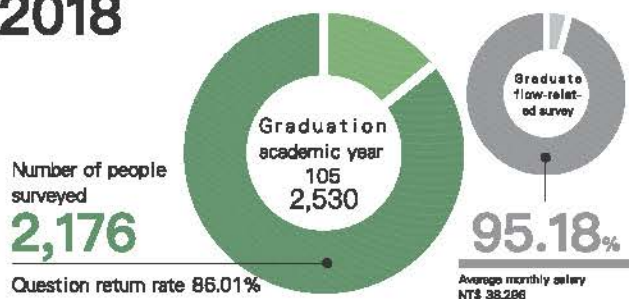
5
Number of start-ups

Graduate Flow

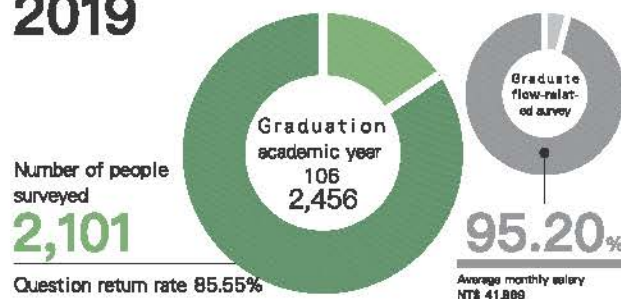
Alumni resources are one of the most important assets of YunTech, and alumni feedback allows this university to reflect on the appropriateness of school management and curriculum planning. In line with the Tracking on College Graduates' Progression Path Program by the Ministry of Education, the questionnaires are used to track the career development status and feedback of alumni using YunTech's Alumni Association Service Platform, which are used to review the objectives of the faculties and departments, the implementation of curriculum planning and the adjustment of teachers' teaching.

The 2018 to 2020 Post-Graduation Year Flow Survey was conducted from the 105th to 107th academic year, with a questionnaire return rate of over 80% and a graduation employment rate of over 95%.

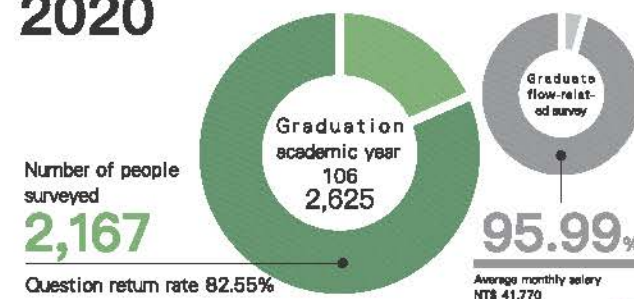
2018



2019

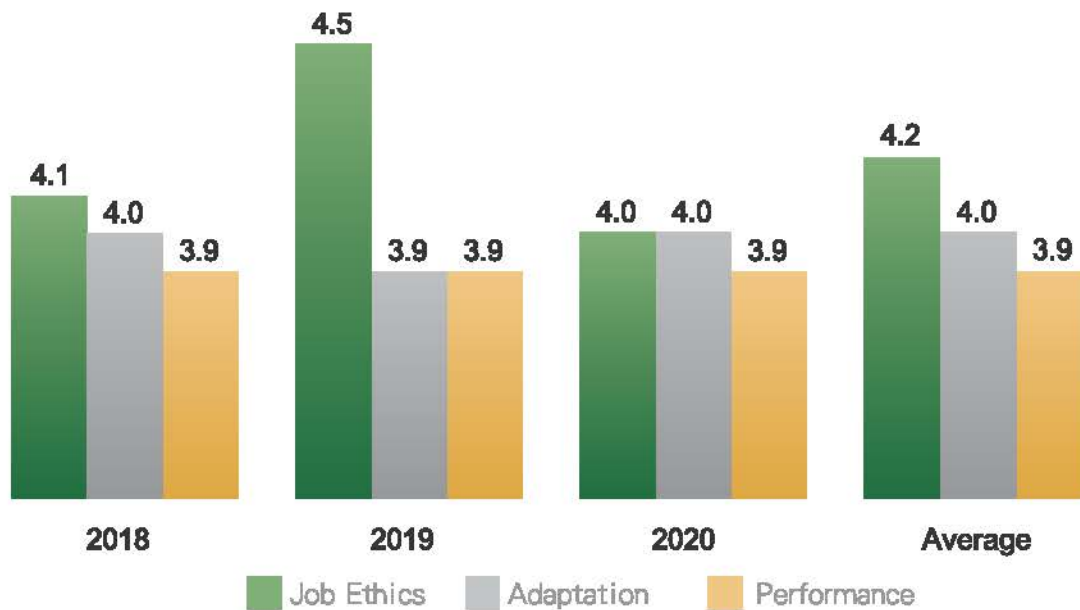


2020



Employer Satisfaction

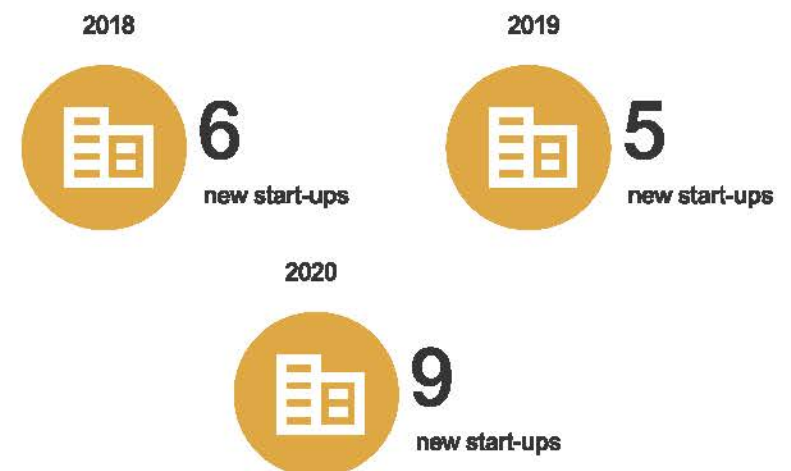
This university is also concerned about the situation of students after they have graduated and entered the workplace. Every year, YunTech assigns the employment agency to conduct an employer satisfaction survey from three aspects (performance, adaptation, and job ethics) with a total score of 5 points. In the past three years, YunTech's employer satisfaction rate has remained stable, with a score of 3.9 in job performance, 4.0 in job adaptation and 4.2 in job ethics.



Employer Satisfaction Survey Results 2018 to 2020

Start-up Companies

Our students and teachers have a lot of research and development energy, and this university also promotes the commercialization of R&D results to help students and teachers realize their entrepreneurial dreams. Through the competition, innovative students and teachers are guided to set up entrepreneurial teams, which leads to the establishment of campus start-ups, creating a culture of innovation and entrepreneurship at YunTech, and nurturing more students and teachers to invest in future innovation and entrepreneurship. In the past three years, 20 new ventures have been established. This university is also committed to creating an innovative and entrepreneurial atmosphere on campus and creating a friendly environment for entrepreneurship. To facilitate the commercialization of R&D results and encourage the development of spin-offs, industry experts are invited to select teams with commercialization potential each year and provide guidance on establishing new ventures on campus.



4-3 Effectiveness of Life Education

👑 97% pass rate for CPR+AED certification in 2020 

Integration of Life Education into the Existing Liberal Studies Curriculum: Fulfill the Spirit of Holistic Education

The main mission of Liberal Studies is to strengthen the basic academic skills and humanities of students in technical colleges, to cultivate students with a correct outlook on life and professional ethics, to strengthen the learning community of teachers devoting to Liberal Studies, and to promote cross-curricular learning courses (micro-credit courses), etc.

Under the concept of "all teachers are liberal arts teachers", YunTech invites teachers from all faculties and departments to participate in the Life Education Program, and sets up a team of "Life Education Program Seed Teachers". The team meets monthly to exchange ideas and invites leading professors in the field of liberal studies from outside the school to give talks and interact with seed teachers. The course syllabus is based on an "adoption" approach, combining the teachers' personal strengths and interests with those of the teachers who are responsible for the development of the syllabus and teaching materials. In order to ensure that new students feel the constant care and encouragement of the teachers, the seed teachers will be responsible for leading the new students in the College, so that they can build a good learning environment and relationship with others as soon as they enter the campus.

Health Education Activities

The Health Education Unit of the Academic Affairs Office provides a comprehensive life education mechanism, organising health education activities to improve or enhance health and well-being; from encouraging teachers and students to roll up their sleeves and donate blood to save lives, promoting the learning of CPR+AED basic life-saving techniques among freshmen, training staff, laboratory and club officers to obtain the R.O.C. Red Cross Junior First Aid Certificate, to assisting and guiding students of the Cloud Heart Ambulance Club to administer first aid in rural primary schools. The camp team has been rooted in the promotion of emergency and life education. Each year, this university expects to conduct CPR+AED training for freshmen, 4 blood donation activities, 4 first aid training sessions, and 1 first aid camp for rural primary schools in the summer and winter.



The first two pictures are basic first aid training



Dongli Elementary School First Aid Camp



Basic lifesaving training

Health Education Activity Outcomes for 2020

1. 1,611 students participated in the CPR+AED course, with a 97% pass rate of 1,571 students obtaining their certificates.
2. 2 first aid camps were held for 50 students and teachers, with a 100% pass rate of 50 first aiders.
* (only 2 camps were held in the second half of 2020 due to Covid-19).
3. 4 blood donation events were held, with 638 students and teachers joining in and donating 805 bags of blood to save lives.
4. During the winter holidays, a first aid camp for primary school students was held at Dayou Elementary School at Lunbei Township, Yunlin County, with a total of 31 primary school children learning about first aid safety. During the summer holidays, a first aid camp was held at the Hualien County Dongli Elementary School, where 37 primary schools children learnt about first aid.

In order to take good care of the health of all students and teachers, the Health Education Section has signed contractual agreements with nearby medical institutions. 50 hospitals have been signed in the 108 academic year, providing discounted registration fees and free medical consultation services to provide comprehensive medical care. In addition, health promotion Programs and tobacco prevention activities are held every year to meet the health needs of all students and teachers.

Academic Year	Events	Attendance
106	81	5,170
107	126	16,799
108	37	3,769

Creating a "Therapeutic" Campus for the Heart and Soul

It is also important for YunTech to nurture students to be able to face the challenges of life with a more adaptive perspective, to manage their life goals and to develop a sense of connection with the community. The Counseling Center has turned a previously unused part of the campus into a healing environment called the "Healing Garden", with seven areas for teachers and students to relax, including the "Talking Heart Area", "Appreciating the Sky Area", "Passing on Blessings Area", "Saying Goodbye to Loss Area", "Saying Thanks to Yourself Area", "Happy Bank Area" and "Passing on Love Area". The Counselling Center organises regular life education Programs in the Healing Garden to foster a harmonious relationship between young students and themselves, others and nature, and to foster a sense of belonging between people and others, as well as to achieve self-acceptance and self-affirmation.

Academic Year	Events	Attendance
106	Light clouds and breeze - so therapeutic!	164
107	Meeting You at the Healing Garden	182
108	Meeting Myself at the Healing Garden: Photography Activity	338

Life Education Thematic Counselling Activities

The concept of life education encompasses the four relationships between human beings and themselves, others, the environment and the universe, and is a holistic and sustainable concept of life development. Therefore, YunTech hopes to gradually cultivate positive attitudes towards life and ignite optimism and vitality among teachers and students. In order to achieve the goal of holistic education and lifelong learning, the Counselling Center plans life education activities every year and invites teachers and students to participate in a variety of creative activities. By doing so, YunTech can improve the abilities of teachers and students to integrate knowledge, emotions, thoughts and actions, as well as developing multiple wisdoms and potentials.

Academic Year	Events	Attendance
107	The MOE helps college universities to carry out Suicide Prevention Gatekeeper Training Strategy	204
108	The MOE helps college universities to carry out Suicide Prevention Gatekeeper Training Strategy	1,292



Special Education and Life Education

To implement the concept of a friendly school environment and to ensure a non-discriminatory, equitable and high-quality education, the Counseling Center has been promoting school-wide awareness to help students with physical and mental disabilities to adapt to this university and establish a friendly school environment, and to promote the acceptance and care of special education in accordance with the SDGs. Moreover, to fuel special education students in chasing their dreams and bear the spirit of friendly campus, YunTech makes Dream Project as the characteristic and highlight of its special education.

Through specially designed and arranged activities, and in collaboration with various social welfare organizations for the physically and mentally challenged, and in conjunction with the special education student category, all staff, parents, students and even members of the community will be able to understand the nature of special education students, avoiding special labeling, so that they can be accepted and cared for. In addition, it helps special education students to be spontaneous and courageous in fulfilling their dreams from their own perspective. The Dreamers start with the preparation of the Program and learn by doing, one step at a time. Through the implementation of the project, the Dreamers find the connection between themselves and society, develop their own vision of society, and see that they also have the power to influence society, encouraging more students with physical and mental disabilities to join the ranks of courageous dream builders. This is part of YunTech's ongoing efforts to build a friendly campus and social environment for the physically and mentally challenged, starting from the campus.



Number of talks on special education and the Dream Project from 106 to 108 academic year



Gender Equity Education Act

YunTech provides counseling services for individuals and groups with different gender, sexual orientation, gender characteristics, and gender identity. At the same time, to deepen teachers' and students' understanding of gender diversity, enhance gender awareness and promote gender equality, YunTech organizes a series of activities such as "Seminars on Gender Equality Education at Campus", "Lecture on Gender Equality Education", "Women's Film Exhibition", and "Gender Film Exhibition" every year. Based on relevant resources in and out of the school, YunTech increases the participation rate to make the campus and community care more about gender issues, so as to understand gender differences, respect diversity, and implement gender equality education.

Academic Year	Attendance
106	1,490
107	2,645
108	2,120



Preventing Drug Abuse

In recent years, various kinds of emerging drugs in Taiwan have entered into the society under the disguise of drinks and candies, invading the campus and poisoning students. To prevent and control the harm of drugs, we continue to consolidate anti-drug education and publicity networks as well as multiple and effective anti-drug publicity and education channels. Therefore, by combining service learning courses, we recruit students from associations as volunteers for anti-drug publicity. In addition to using various school gatherings, we also invite junior and primary schools in nearby communities and towns. Using the roles of big brothers and sisters with "small-and-big hand-in-hand", we add friendly and lively publicity and education contents into junior and primary school classes. Hence, those students can understand the harm of drugs and to reject drugs from an early age. At the same time, it also strengthens the anti-drug awareness of students volunteers to make anti-drug work deeply-rooted and create a fresh and healthy learning environment.

Academic Year	Attendance
106	854
107	580
108	609

4-4 Environmental Sustainable Education Effectiveness

★ Three First-and-Second-Class Units of Environmentally Sustainable Education Performance:
 Department of Safety Health and Environmental Engineering,
 Research Center for Soil & Water Resources and Natural Disaster Prevention,
 Research Center of Industrial Pollution Prevention

Department of Safety Health and Environmental Engineering



15

Full-time teachers



237

Undergraduate students



126

Postgraduate students



4

Teaching laboratories



15

Specialist research laboratories

The current full-time faculty members of the Department of Safety Health and Environmental Engineering have many years of practical experience and enthusiasm for their work and have recruited part-time faculty members with extensive practical experience to develop the Department's diverse and international character. The Ministry of Education has accredited the Department as a first-class professional department of the National University of Science and Technology, the International Institute of Engineering and Technology Education (IIEET) and is recognized by the international engineering education community. Its educational objectives are to equip students with basic mathematical and engineering skills, meet the industry's needs, develop a spirit of care for the environment and continue lifelong learning. The program emphasizes both theoretical and practical training, and to emphasize practical training to help students obtain professional qualifications, regular training courses on environmental and safety qualifications are organized to enhance students' employability through both theoretical and practical training.

The Department of Safety Health and Environmental Engineering emphasizes the development of students' practical skills, emphasizing practical projects and design practice, and offers a variety of laboratories, including four teaching laboratories and 15 specialist research laboratories. At the same time, this University has established the Environmental Incident Response Advisory Center, Research Center for Soil & Water Resources and Natural Disaster Prevention, Center for Process Safety and Industrial Disaster Prevention, Sustainable Development and Green Technology Research Center and Green Technology Research Center, "Clean-Green Sustainable Innovation Research Center" and "Air Quality Model Support Center" established by the Environmental Protection Administration of the Executive Yuan, all of which have faculty members from the Environmental Safety Department as key members. This center has achieved a lot of success in strengthening students' practical experience through training in relevant industry-academia projects. In the future, this center will continue to develop internationally and in line with government and industry, policies to train students to become senior technical personnel in environmental engineering, safety and health, disaster prevention, and green environmental resources.

Year	Number of industry-government-academia col-laboration cases	Amount of industry-government academia coop-eration cases (NT\$)
2018	130	112,345,489
2019	155	78,774,105
2020	128	240,964,288

Safety Health and Environmental Engineering Projects on Industry-Government-Academia Collaborations
 Awarded from 2018 to 2020

Safety Health and Environmental Engineering

The objectives of this center are to assist local and central governments in planning the investigation, analysis and conservation of soil and water resources, to establish and promote soil and water resources and disaster prevention and control systems, and to actively provide the international community with research and development results related to soil and water resources and disaster prevention and control, to assist in the establishment of international mechanisms and systems related to soil and water resources and disaster prevention and control, and to participate in transnational soil and water resources conservation and natural and human-caused disaster prevention and control work.

This center's areas of expertise include ground subsidence prevention, regional water resources deployment and survey planning, emerging water resources development, environmental monitoring and research, and pollution investigation and prevention. Under the guidance and research of our faculty members, this center has received an average of 31 industry-academia collaborations in the past three years, and has received approximately NT\$70 million in industry-academia collaborations.



Research Center for Soil & Water Resources and Natural Disaster Prevention Statistics on Industry-Academia Collaborations Awarded from 2018 to 2020

Research Center of Industrial Pollution Prevention

The Research Center of Industrial Pollution Prevention was established to integrate this university's faculty and facilities in the fields of environmental protection and pollution prevention and to actively engage in research and development in the fields of water resources, wastewater pollution and prevention, air pollution and prevention, noise and vibration, toxic substances treatment technology consultation, and waste pollution and prevention. Through industry-academia collaboration, this university is expanding research and human resources and technology exchanges with public and private pollution prevention research institutions in Taiwan and abroad, intending to utilize YunTech's software and hardware resources, such as faculty and equipment, to enhance pollution prevention technology and expand research and development results in Taiwan, so as to move towards the goal of pollution prevention that takes into account both industrial development and environmental protection.

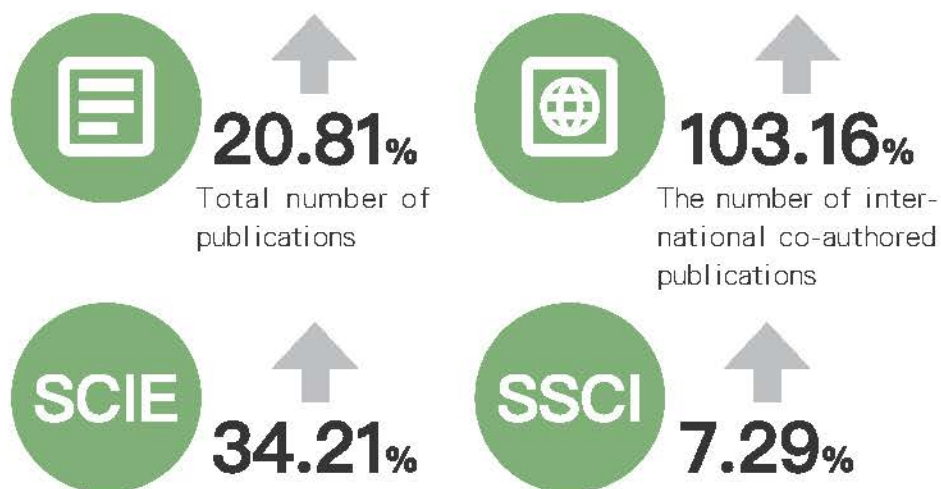
This Center has been involved in projects and research related to environmental protection and pollution prevention for the government and the industry in recent years. This center also helps promote environmental education activities, such as lectures on environmental issues, the introduction of energy-saving equipment and products, and environmental DIY courses, to educate students and the public to explore and consider the importance of environmental protection.



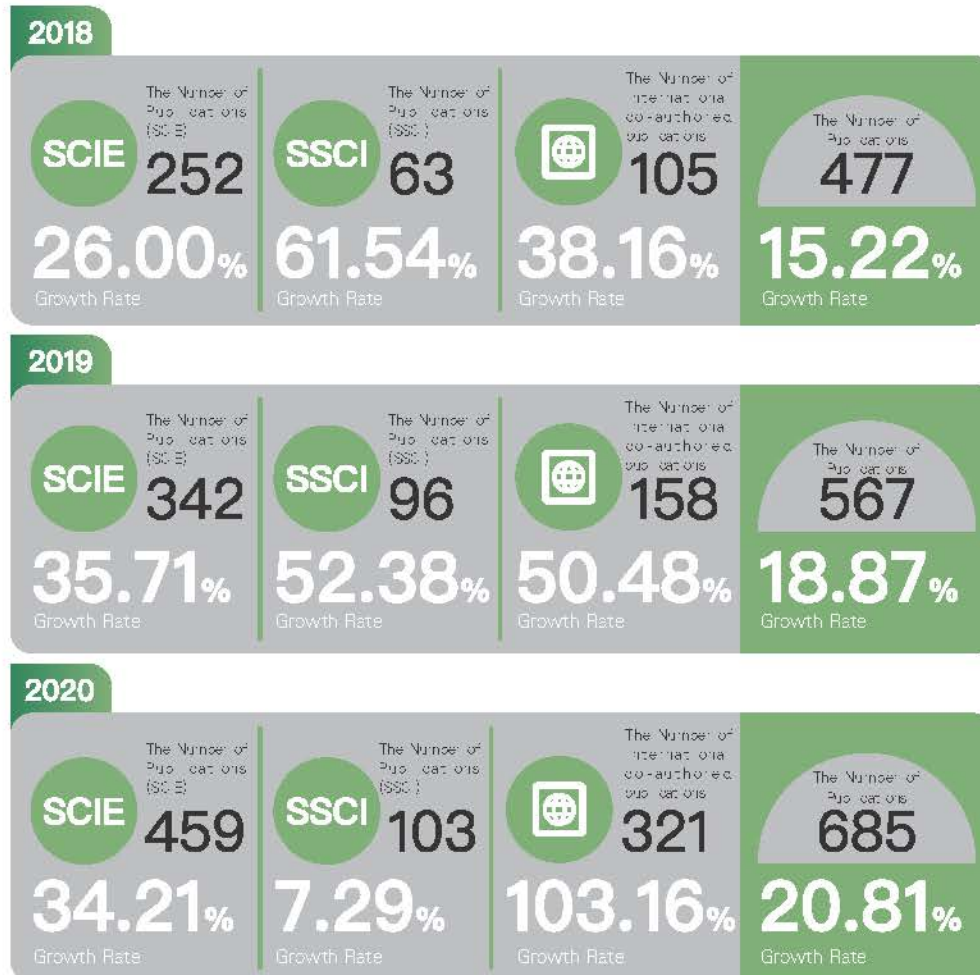
Number of Collaborations and Events Held by the Industrial Pollution Prevention and Control Research Center from 2018 to 2020

4-5 Academic Research Results

Knowledge is the greatest power to change the world, and academic research is the fundamental origin of knowledge.



YunTech has set up rewards to encourage teachers to publish papers and excellent scholarly journals proactively, improving the academic study climate. We have also established Key Points on the Flexible Wage System and many incentives, such as Academic Research Merit Award, distinguished professor of Fengtay, part-time professor of Yun-Tech, distinguished professor of YunTech and so on, so as to attract and retain outstanding talents in academic research.



2018-2020 Number of Academic Publications and Its Growth Rate

*Quote from Scopus database and Web of Science (WOS) database.

In 2020, YunTech's impact of paper publication had exceeded the global average in eight major fields (FWCI > 1). FWCI refers to Field Weighted Citation Impact. If a paper's FWCI is higher than 1, its citations in others are above the world average level.

SDGs Where YunTech's Impact of Paper Publication Exceeds the Global Average during 2017-2020



*Quote from Scopus database



*Quote from Scopus database

4-6 Industry-Academia Cooperation Results

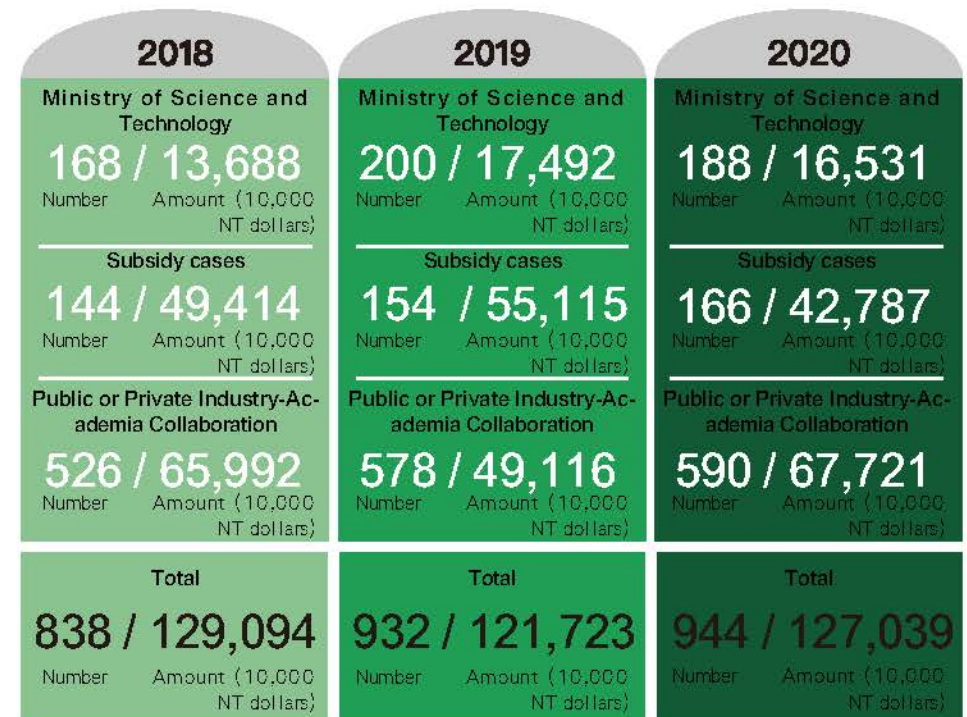
 In 2021, YunTech ranked 28th in the "industry income (knowledge transfer)" of the Times Higher Education rankings.



Industry-Government-Academia Collaboration Results

YunTech's vision, objective and development strategy is to store up the energy of application-oriented research, wield local, industrial, social and global influence, build a mechanism combining research outputs and start-ups, and solve local, industrial, social and global problems through education and R&D resources. To achieve that, we have adopted an array of measures, such as Key Points on the Flexible Wage System, industry-academia cooperation rewards, Industry-Academia Cooperation Merit Award, patent subsidy application, patent excitation assistance and so on. By doing so, we hope to attract and retain outstanding talents in industry-academia research, improve the application of knowledge, and solve local, industrial, social and global problems through education and R&D resources, making contributions to sustainability in the economy environment and society.

Industry-academia collaboration means that YunTech's various departments, commissioned by government organs, public or private institutions, non-governmental organizations, academic research institutions and so forth, deliver research on current issues, industrial services, educational training and other services with their existing teaching resources, workforce and equipment, to produce relevant benefits. In our school, about 80% of teachers devote themselves to industry-academia collaboration, providing students opportunities to learn from practice and improving their employability. That also contributes to address industrial, governmental and social problems, offering start-ups more jobs. Furthermore, in 2020, YunTech has won in succession Industry-Academia Collaboration Outstanding Unit awarded by Chinese Institute of Engineers and Excellent Creative And Educational Institution awarded by the Office of Small and Medium-sized Enterprises in Ministry of Economy. In 2021, YunTech ranked 28th in the Times Higher Education rankings in the performance of "industry income (knowledge transfer)" among more than 1,500 universities across 93 countries and regions; ranked 79th in the aspect of "industry, innovation, and infrastructure" among THE University Impact Rankings. All those achievements owe to the research groups of YunTech and cooperative enterprises, and push YunTech to continue industry-academia cooperation.

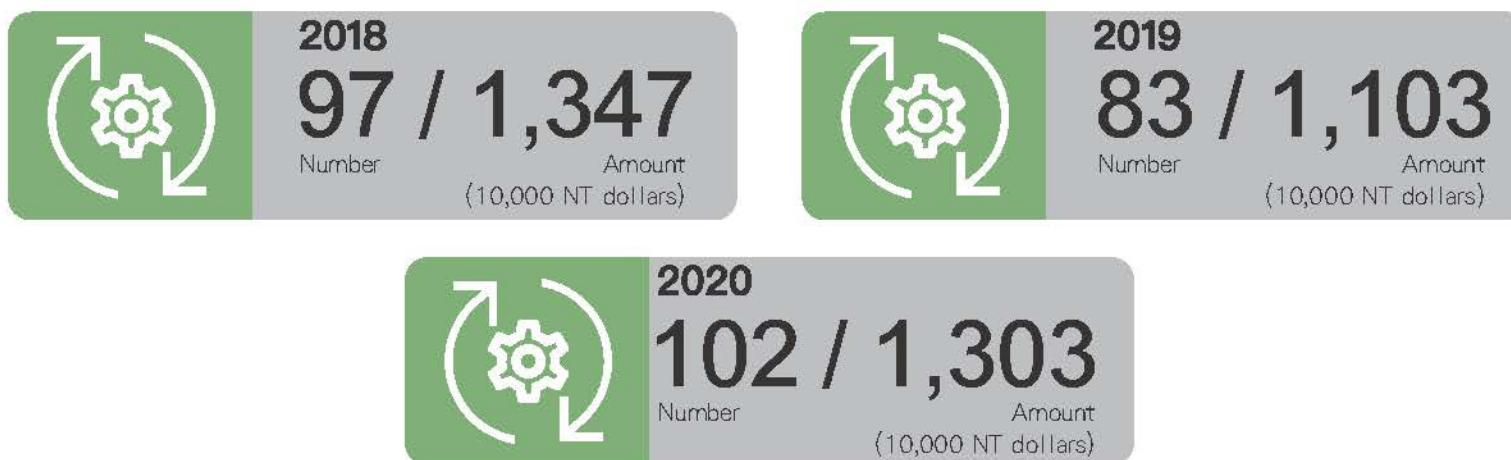


2018-2020 Industry-Government-Academia Collaboration Statistics

Technology Transfer Results

YunTech handles technical energy patents and reviews technological talents on regular basis, and cooperates with various research service centers, strategic alliance partners and local industrial resources. We act in specific ways, such as expert consultation, technical training, functional improvement or business counseling, and providing legal and marketing services. By taking all these measures, YunTech helps industries bridge technological gap and increase added value. It boosts creative management mechanism of technology transfer and diffusion, assists teachers and students in innovative research and technology transfer, so as to spread knowledge, add its value and make it useful to society. Therefore, it contributes a lot to job creation and economic growth.

Due to our location, manufacturers nearby are mostly small and medium-sized businesses that have smaller operating scale and relatively less desire or demand for technological transfer. In order to effectively improve technology transfer performance, YunTech actively visits enterprise sites and participates industrial park fellowship, as a way of seeking industry-academic collaboration opportunity. Besides, we also strengthen the development of technology commercialization and elevate research quality and quantity, thus attracting more manufacturers and provide valuable technologies. With the powerful collaboration of YunTech's Incubation Center, the Office of Industry Academia Cooperation and the Office of Research and Development, we transfer by authorization the technologies developed by academic research, promote business technology of local manufacturers, drive the economic growth of local industries, and fully fulfill our social responsibility and mission to industries in central-south of Taiwan.



The Signing Number and Amount of Technology Transfer in 2018 to 2020

4-7 Chain Counseling System

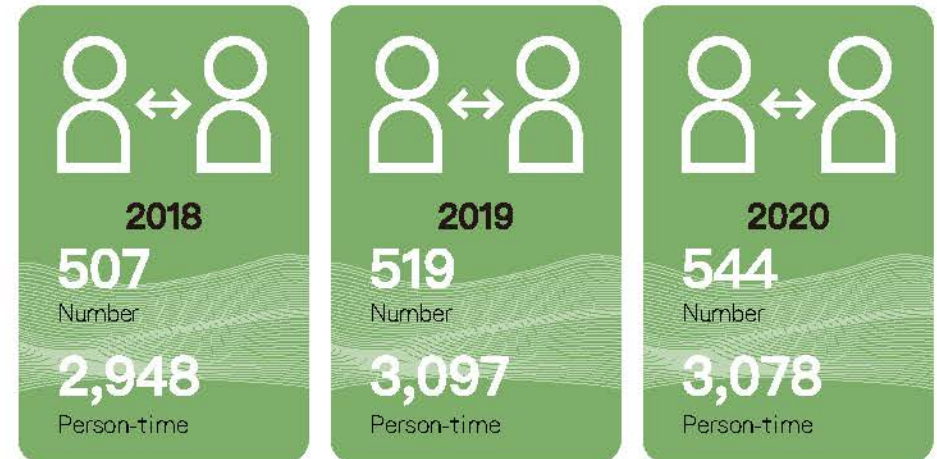
Psychological Counseling

Establish School Mental Health Education Promotion and Counseling System

The main purpose of establishing the Counseling Center is to protect and improve the mental health of both students and faculty, to help students understand themselves, to solve their psychological distress caused by daily life, study and career development, to give full play to individual potential, to pursue self-realization, and to provide mental health counseling services.

Establish Electronization Individualized Counseling Service System

YunTech provides full-time electronization case management and psychological consultation booking services. Through the online reservation system, our staff and students can make an appointment for counseling, consult and search relevant information at any time and any place.



Number and Person-time of Individual Counseling Services Receiving in 2018 to 2020

Highly Caring Students Screening Mechanism – “Emotion Monitor” Activity

In order to establish a screening system for high-care cases, the “Emotion Monitor”, a high-care group screening program for freshman, is implemented one by one in the form of class discussion by full-time, part-time and intern psychologists at the beginning of each semester after freshmen enter the university (for junior students, about one to two months from the beginning of the next semester). It has to be implemented under the premise of obtaining the consent right after the knowledge of the due parties, so as to find out the cases that need follow-up care and counseling. Then, the psychologists of each college will build the database in the counseling system, and contact with them through telephone to provide care and invite them to participate in individual or group counseling, workshops and other activities. Actually class discussion contains not only psychological intervention, but also mental health education, thus contributing to students’ psychological development. For example, we offer interpersonal relationship and communication education to freshmen, and career exploration and planning education to junior students. At the same time, we also work with our tutors to continuously track and care for these cases. We hope to help students develop effective environmental resilience through our close counseling network.

The Academic Year	The Number of Subjects	Tested
106	82	3,487
107	74	3,269
108	79	3,450

The Number of Events and Subjects Tested in “Emotion Monitor” during 106 to 108 Academic Year



Set up Teacher Counseling Community, Strengthen Teacher Counseling Knowledge and Ability

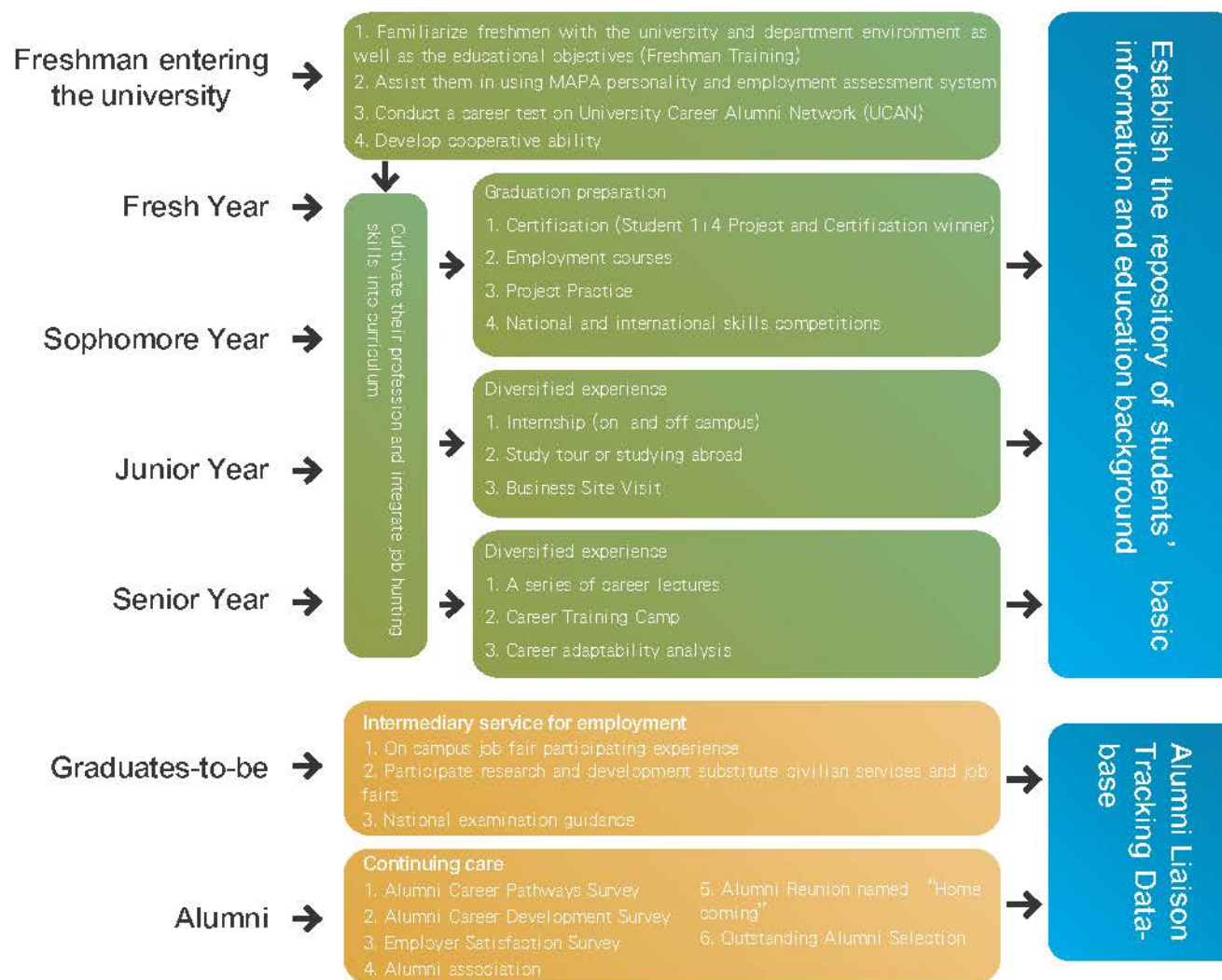
In order to strengthen the knowledge and ability of teachers in life counseling, the Counseling Center calls for the establishment of a cross-department knowledge & ability community of counselors inside school which unleashes teachers' enthusiasm and energy in counseling. Meanwhile, a cooperation mechanism between teachers and professional counselors has been built to jointly assist students in learning and adaptation and promote their mental health. Currently, we have communities with "interpersonal", "emotion" and "career" as counseling issues. The teachers in charge take the initiative to plan various ability-enhancing activities for their peers, and cooperate with the Counseling Center to help them strengthen their counseling knowledge and ability. In 2020, there were 11 sessions held altogether in which a total of 201 teachers have participated.

Career Counseling

YunTech's student employment counseling mainly focuses on strengthening students' employability, creative thinking and cross-field knowledge and ability. We use the MAPA personality and employment assessment system to help students understand their career interests. As a reference for career choice, the vocational interest exploration and functional diagnosis of University Career Alumni Network (UCAN) has also been promoted. The response rate of UCAN was 73.58% in 2020. In addition, it holds relevant lectures and activities to help students learn about the job market as early as possible and make them more competitive in the workplace.

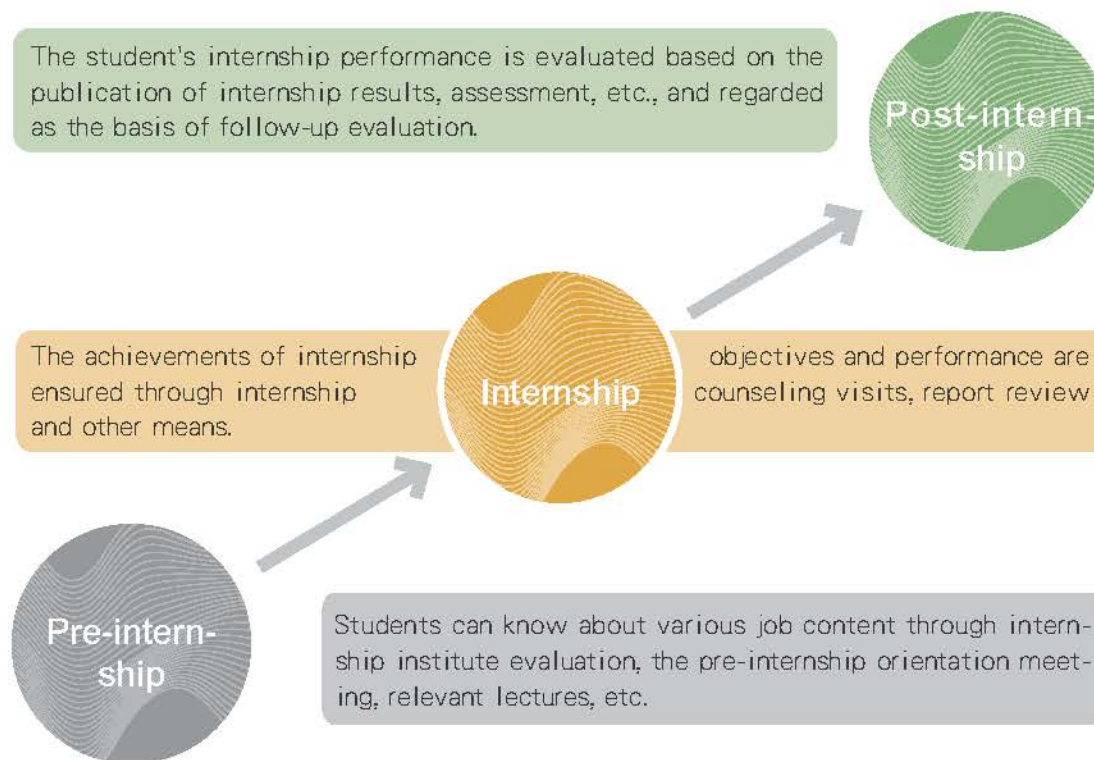


In order to improve the career counseling system for graduates, there are differentiated measures from freshman's entrance to graduation. The career counseling process is as follows:



Student Internship

To cultivate students' ability to integrate practice and theory, we provide internship programs to help them understand the enterprise workplace culture and establish professional ethics awareness. In addition, we stipulate that undergraduates must complete a minimum of 320 hours of industrial practice before graduation, which is defined as the graduation threshold. In the academic year of 108, the number of interns reached 1,071, with that of cooperative enterprises standing at 458.

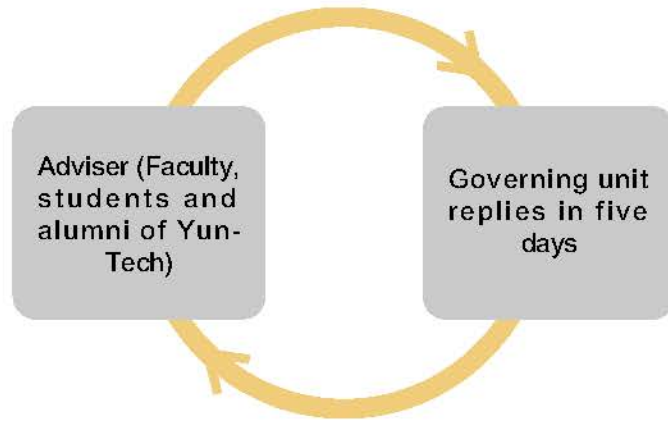


Organize A Series of Career-themed Activities of Professional Knowledge

According to the statistical analysis results of the counseling services over the past three years, interpersonal relationship is the first most frequent topic, followed by self-understanding and physical and mental health. Moreover, self-understanding, including the sense of self-worth, seeking life meaning, self-identity and so on, often goes with counselees' uncertainty. During the interview process, we often found that counselees' uncertainty about their self-concept and self-identity will affect the understanding of their strengths and weaknesses. Consequently, they feel difficult to establish career direction and are often at a loss in career choice. The Counseling Center sometimes received students with learning difficulties introduced by teachers and parents throughout the semester. We found that when students feel puzzled about their careers and are unclear about their future goals, it is easy to reflect on their learning motivation. As a result, they show unstable class attendance, unhealthy study motives, etc.

Year	Program Name	Number of Participants	Percentage of Participants Considering Activity Helpful to Career Development	Satisfaction about Activities
2018	Youth Unlimited 2018/08/16-2018/11/30	2,348	94.6%	86.20%
2019	Inevitable-the Best in YunTech 2019/05/01-2019/11/15	2,474	98.5%	98.69%
2020	Multiple Empowerment Employment Program 2020/03/02-2020/11/13	4,400	98.3%	98.87%

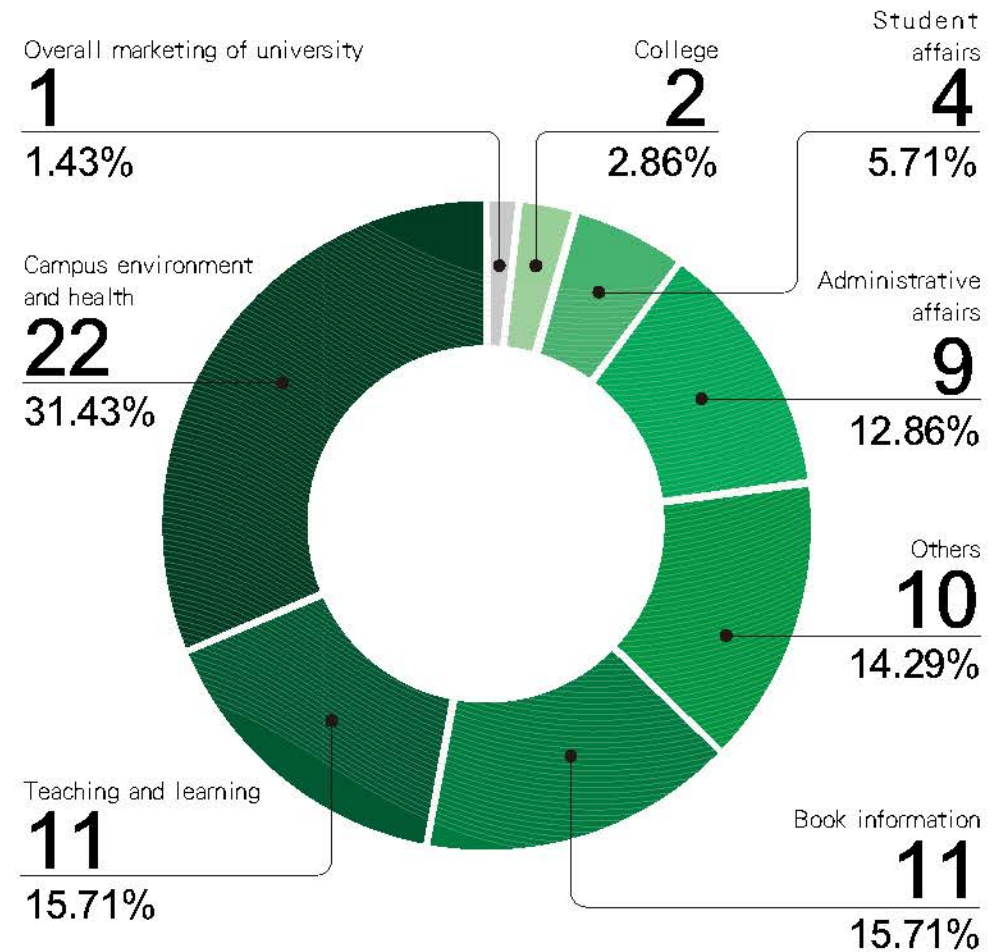
Student Appeal System



Put into operation in 2018, the system has received 70 suggestions about school affairs in 2020, reducing by 4.11%. According to the suggestions, most governing units have made improvements or announcements, while some issues cannot be solved immediately due to the fund, laws, or existing space limitations. Hence, the responsible units invited internal units to discuss those issues and improved the infrastructure accordingly.



The Number of Advice from Faculty and Students in 2018 to 2020



The Number and Percentage of Varied Suggestions in 2020





05

Environmental Protection

Major Topics in the Chapter

Environment and ecological sustainability



Energy management and saving measures

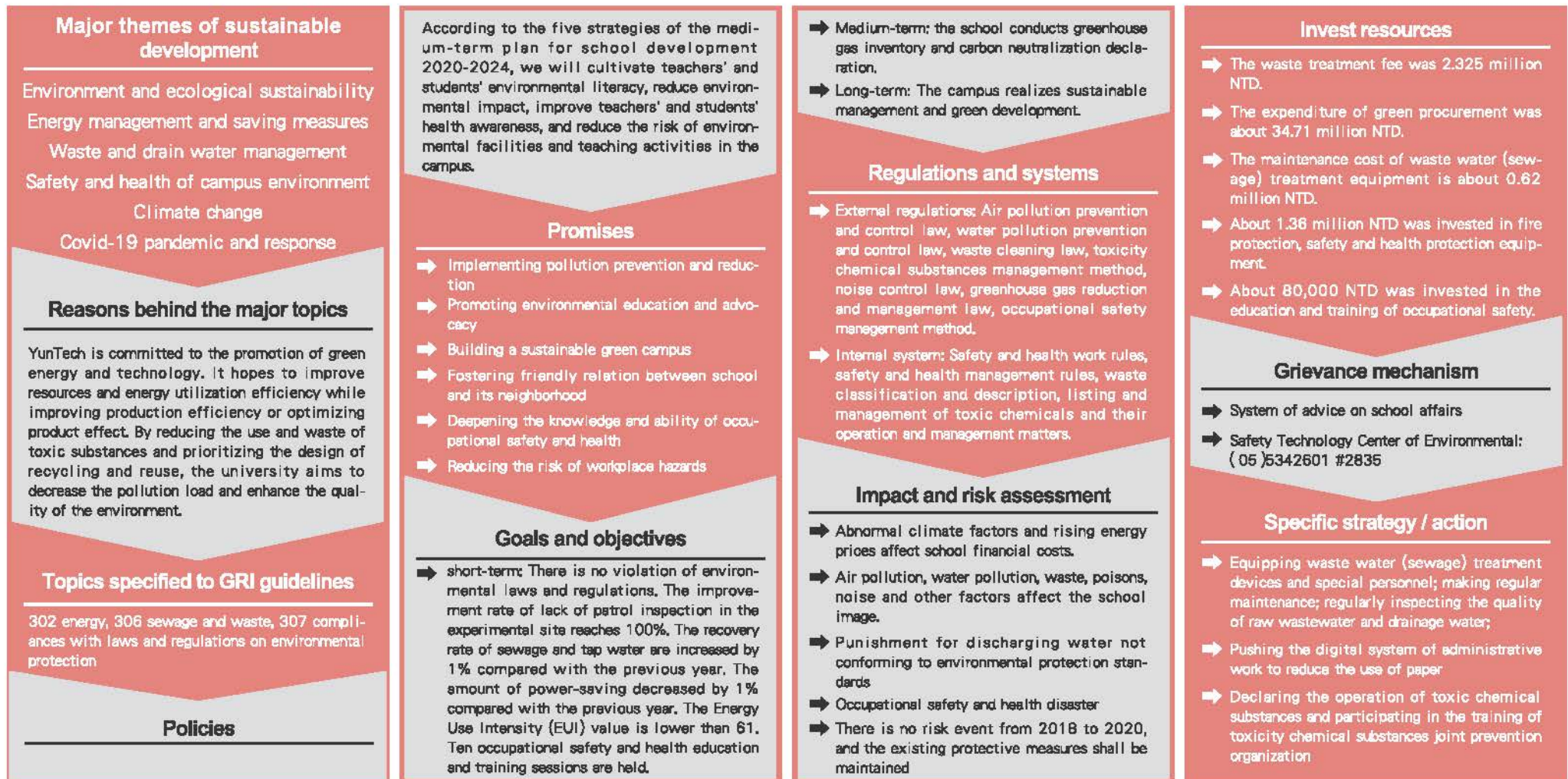
Waste and drain water management

Safety and health of campus environment

Climate change

Covid-19 pandemic and response

Management Policy for major issues and their elements



Management Policy for major issues and their elements

- ➔ Building solar photovoltaic power generation equipment
- ➔ Priority to purchase products with the energy-saving label
- ➔ Taking all-year-round training, earthquake evacuation and compound disaster prevention and rescue drill, fire fighting training
- ➔ Holding safety and health education and training every semester
- ➔ Holding The laboratory site inspection every school year
- ➔ Disaster prevention measures
- ➔ Implementation of general rules for dangerous and harmful substances

Output performance / evaluation mechanism

* Comprehensive comparisons between the achievement of annual goals and the performance of previous years

Achieved goals

- No violation of environmental regulations
- 100% improvement rate of missing inspection in laboratory
- The sewage recovery rate reached 53.85%, increasing 3.22%.
- EUI value was 60.81 < 61

Unachieved goals

The recovery rate of tap water was 21.22%, with a decrease of 3.93%.

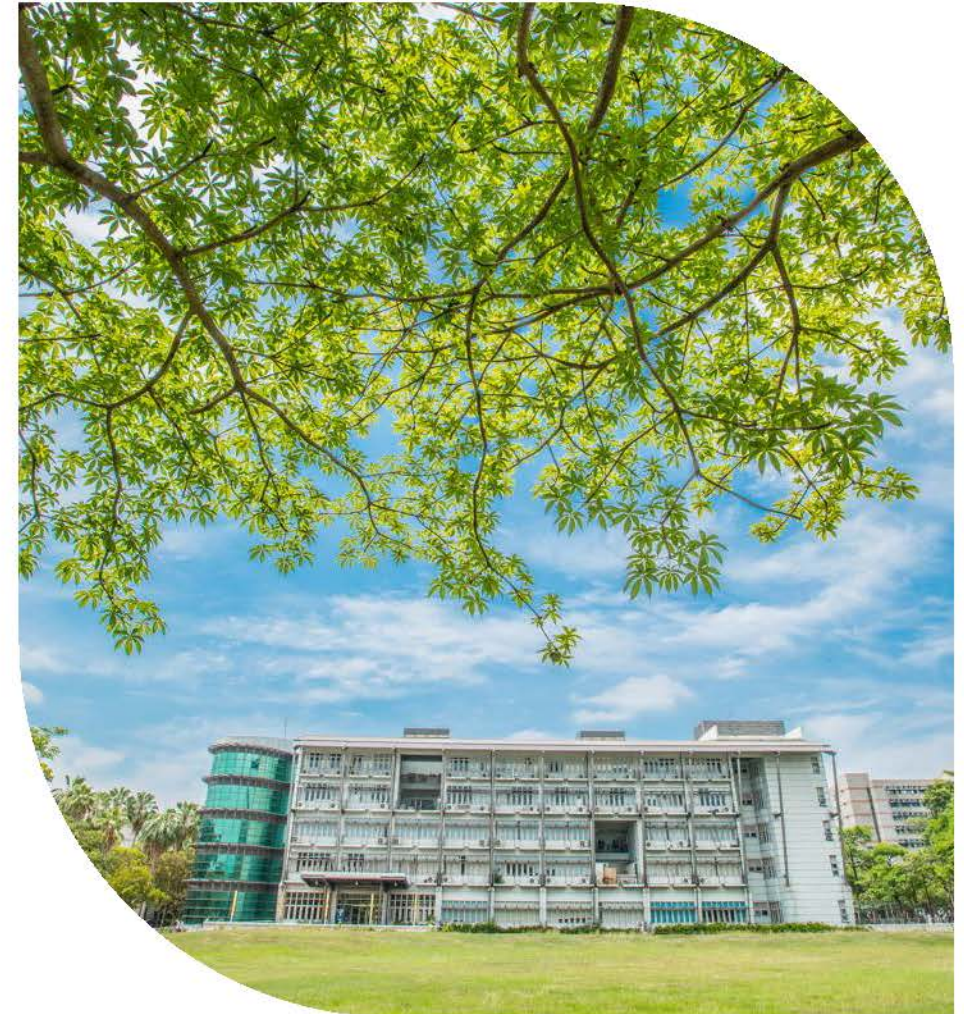
- Improvement plan: The consumption of tap water increases while the amount of waste water is reduced. It is possible that the overall recovery rate was declined due to the leakage of underground pipelines. YunTech will strengthen inspection and repair of pipelines to reduce leakage.

- The power-saving ratio was - 0.48%, reduced by 4.20%.

Improvement plan: Due to the opening of the new building and the need for ventilation due to the pandemic prevention, the annual power consumption was increased. Subsequently, the power consumption of the whole school is continuously monitored through the intelligent cloud management system.

- Occupational safety and health education and training took place 6 times, increasing 5 times.

Improvement plan: Because of the impact of the covid-19 pandemic, the number of education and training sessions was reduced, and online education and training courses were encouraged.



TCFD Climate Change Management

Nowadays, climate change is one of the important risks. Under its influence, the frequency and intensity of extreme weather in Taiwan have increased in recent years. The risks of climate change include loss of human life or property, poor operation of enterprises or public sectors, abnormal production and marketing of crops, blocked import and export of goods, stagnation of social and economic development, etc. For example, the abundant rainfall brought by short-time strong rainfall easily causes flooding in low-lying areas, and the abnormal drought leads to poor water regimes in some areas. However, opportunities generate in contrast, such as the promotion of the disaster prevention industry, the development of industries and talents related to post-disaster recovery, and so on.

For the University, the risks caused by climate change is concentrated in the impact on the administrative and teaching environment, such as the traffic safety of teachers and students during the typhoon and heavy rain, the damage of school buildings due to flooding, the damage of documents or electronic data caused by water, the impact on campus water made by drought and water restriction, the need to turn on air conditioning for a long time in the face of high temperature, etc. The financial impact of these risks on the university includes the increase of repair, maintenance or insurance costs and the rising personnel costs for the employment of disaster prevention talents.

On the other hand, these risks can also create opportunities to develop courses, plans and talents of departments or units related to disaster prevention, striving for more plans for industry-academia cooperation related to climate change. The university rents idle roofs for industries to invest in solar energy systems, making good use of the long sunny days in the south and converting the disadvantages of high temperature into advantages.

Adhering to the sustainable development policy, the university has established the "sustainable development and social practice research center" to coordinate sustainable and other related businesses. In addition to formulating management policies for environmental issues, YunTech has gradually addressed potential climate-related impacts by defining and managing the categories of climate-related risks and opportunities in the light of the more and more attention paid to climate issues by international organizations and government agencies. In response to the risks caused by climate change, all university units, cooperating with the disaster prevention requirements, formulate and write a plan for campus disaster prevention. Regular disaster prevention drills are practiced in the university to confirm the enforceability of the plan to improve the ability to prevent the possible disaster of the university under the impact of climate change. A disaster-resistant and resilient campus is built for the school with these efforts.



Climate-related Risks

1. Transformation risk: For example, the transformation of a low-carbon economy needs a wide range of policy, law, technology and market changes. It may bring different degrees of financial burden and risks to the university.
2. Technical risks: Supporting the economy to turn to low-carbon and high-efficiency technology improvement or innovation has a significant positive impact on the university. For example, by signing a contract with the industry and renting idle roofs, YunTech helps the industry invest in the construction of roof solar systems. By 2020, the construction capacity reached 1.194 million peak watts, and the total power generation was 1.472 million kwh in the whole year. The university will fully use the University Social Responsibility (USR) and share the technology with the industry.
3. Market risk: By changing the supply and demand structure of some goods, products and services, the school will consider more climate-related risks and opportunities.
4. Physical risk: The climate model can be immediate or long-term, which may impact the school financially. For example, It would direct damage to assets, having indirect impact caused by disruption of the supply chain. The factors that may affect their financial performance include the availability and source of water resources and the impact of extreme temperature changes on the safety of the school's premises, supply chain and faculty.

Identification and Evaluation

In the blueprint for sustainable development of YunTech, the significant impact of climate change is continuously controlled. We carefully consider climate-related risks, opportunities and potential impacts under different conditions. Based on the SWOT mentioned above, the "situational analysis" is applied to identify and evaluate climate change issues.

Based on the above advantages, the university has been able to inform different organizations (centers) and stakeholders of the major issues of concern to the university through a variety of external outreach activities, including secondary public consultation (focus group interviews with supervisors' consensus camps, stakeholder questionnaires), industry interviews and visits. Given this, we also carry out specific implementation in various campus units for climate and other related issues.

Qualitative	Quantitative
1. Relevant environment and climate courses have been set up to establish students' awareness of sustainability, climate and ecology.	Environmental courses - 50 classes in total Climate courses - 7 in total
2. Establishing a center for overall and sustainable development	Research Center for Sustainable Development and Social Practice
3. Establishing a research center for sustainability, recycling and ecosystem	Research Center for Soil & Water Resources and Natural Disaster Prevention, Clean-Green Sustainable Innovation Research Center, Renewable Energy Research Center, Mini Hydropower Equipment R&D and Application Research Center - 4 centers in total

Analysis of our advantages with situational analysis

Guidelines and Objectives for Managing Climate-related Issues

YunTech's management mechanism for climate-related issues is mainly based on GRI's core standard, AA1000 assurance standard V3 and TCFD recommendations report. In this principle, the university implements decision-makings and forward-looking objectives management and action plans through situational analysis of the "futurability" of the issues. Under identification and evaluation of situational analysis method, and carefully listening to the opinions of stakeholders, the university fulfills its social responsibility in energy consumption and sewage and waste treatment (section 5-2), and truthfully discloses its short-term goal that the annual building energy use intensity (EUI) met the official regulations and was lower than 61, and the sewage and tap water recovery rate was increased by 1%, to achieve the goal of long-term sustainable campus management and building green campus.

In addition to the Research Center for Sustainable Development and Social Practice, the university also has Research Center for Soil & Water Resources and Natural Disaster Prevention, General Education Center, colleges and departments to undertake the due social obligations for sustainable development.

Research Center for Soil & Water Resources and Natural Disaster Prevention - operating the defense system, making early-warning of flood prevention and earthquake

We are currently assisting the governments of Changhua County, Yunlin County, Chiayi County and Chiayi City, etc., by analyzing potential disasters of regions with professional knowledge.

We are also involved in preparing disaster prevention and relief plans at the county and township levels by local governments or public offices. We also participate in disaster prevention and rescue exercises conducted by the governments.

1. Sound results have been made in guiding the governments of neighboring counties and cities

Chiayi City	Disaster prevention and rescue plan (types)	Disaster prevention and rescue exercise (times)	Education and training for disaster prevention and rescue course (times)	Participating in disaster prevention activity (people)
2018	1	1	2	1,357
2019	3	1	3	40
2020	1	2	11	417

Changhua County	Disaster prevention and rescue plan (types)	Disaster prevention and rescue exercise (times)	Education and training for disaster prevention and rescue course (times)	Participating in disaster prevention activity (people)
2018	27	1	2	682
2019	27	1	4	500
2020	27	9	29	814

Yunlin County	Disaster prevention and rescue plan (types)	Disaster prevention and rescue exercise (times)	Education and training for disaster prevention and rescue course (times)	Participating in disaster prevention activity (people)
2018	0	1	4	635
2019	21	1	3	860
2020	0	20	2	500

Chiayi County	Disaster prevention and rescue plan (types)	Disaster prevention and rescue exercise (times)	Education and training for disaster prevention and rescue course (times)	Participating in disaster prevention activity (people)
2018	14	1	5	609
2019	6	1	7	840
2020	12	10	3	780

Total	Disaster prevention and rescue plan (types)	Disaster prevention and rescue exercise (times)	Education and training for disaster prevention and rescue course (times)	Participating in disaster prevention activity (people)
	139	49	75	8,034

2. Mechanism and procedure

The university has made good use of questionnaires, visits and meetings to assist local governments in signing MOUs with private businesses or organizations and assisting governments in initiating MOUs in times of disasters. We have assisted local governments in signing 30 MOUs with businesses in 2020.

3. Working with government organizations for disaster integration, disaster level decision and preparation.

We have completed the linkage between disaster warning platform and official websites of public departments of Changhua County, Yunlin County, Chiayi County and Chiayi City, which effectively provides disaster information analysis data such as typhoon or heavy rain so that the public can obtain relevant information at the first time and effectively accelerate the response work. In addition, disaster prevention information network 2.0 of Changhua County is developed to provide three query functions, including real-time weather, potential disaster, historical disaster locations, and other useful disaster prevention information to improve people's utility of it.



General Education Center - raising students' awareness of sustainability by five-dimensional courses

The university innovates general education in five dimensions of humanities, society, aesthetics, industry, and science and technology. In addition to responding to the global information evolution and community interaction and mode, it offers AI trend courses. It also integrates environmental education and green sustainable spirit into general education courses, such as environmental economy, life exploration and environmental care courses. Thus, students can understand green, sustainable, global climate change and other related issues to establish the awareness and concept of sustainable development and green economy.

Research Center for Sustainable Development and Social Practice - starting environmental and ecological action in an all-round way

1. Industry-academia cooperation plan: 3 cases

➔ local environmental protection plan of Yunlin County

This county's local environmental protection plan was formulated following the spirit of the national environmental protection plan, the United Nations Sustainable Development Goals (SDGs), and the important policy of local development of Yunlin County. It mainly presents the results of the implementation of local environmental protection work at the present stage and cooperates with the policies of various bureaus and offices to promote the local characteristics of the county and carry forward the beauty of culture. Through the plan's implementation, the inspection results of the local environment, environmental pollution and various environmental issues were collated for reviewing defects of the work and their causes. Specific study and revision were carried on to make the improvement and design a development direction of the overall environmental protection of the county in the future. The plan involved the residents participating, encouraging their willingness and actions to protect the local region. With these efforts, the sustainable economic development and environmental reservation among the environment, residents and industries will be improved, building an "agricultural capital - Yunlin agricultural finance, science and technology city". The city considers the sustainable environment, social creation, safe home, agricultural innovation, rural-urban co-construction, local identity, cross-regional governance and "happy Yunlin" as the strategic objectives of future development. It hopes to deeply cultivate and coexist the unique local culture and natural landscapes, improving the people's spontaneous love for the hometown. By establishing Yunlin County into a rural society with distinguished cultural style and low-carbon development mode, the city will become a model for creating new countryside and new agriculture

amid the global green era, where people and government work together to govern their county or city with environmental protection.

➔ Data analysis of micro monitoring system

➔ Design a visual interface for the "environmental information application" of Yunlin County Environmental Protection Bureau.

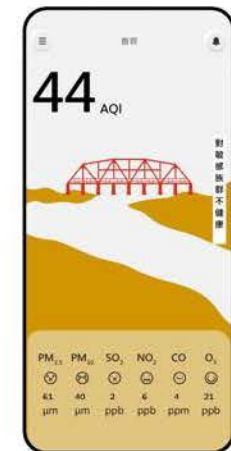
An environmental information integration application, developed by the College of Design of YunTech, was published at the end of 2020. Expect from the integrated functions of air quality, industrial zone at outlying Island, resource recycling station and environmental protection information, people can also use it to interact and send instant messages.



// 01-首頁-空氣品質指標101-150

對敏感族群 不健康

雲林縣政府雲林縣環境保護局空氣品質監測站(淨華) 即時
 監測：PM2.5 (μg/m³)、PM10 (μg/m³)、SO₂ (ppb)、NO₂ (ppb)、CO (ppm)、O₃ (ppb)及AQI
 指標值進行即時監測，透過空氣品質資料獲取程式，
 依據不同網站，測讀資料實時更新，提供專業科
 學數據每1小時更新1次，並提供可快速獲取APP
 用於每小時的單位分數進行數據的更新，以提供專業
 的瞭解可的空氣品質。



2. Recruit environmental and ecological action plan through USR over the whole school: In 2020, there were 7 plans in total, among which 2 plans were related to climate action

➔ Assistance and promotion of setting solar photovoltaic energy system (College of Engineering)

Recently, the government has vigorously promoted the construction of green energy for all and solar photovoltaic energy, setting a target that green power accounts for 20% of the total electricity generation by 2025. Yunlin county is the green energy capital of Taiwan. When the world focuses on solving environmental problems, local schools and institutions should help the governments develop towards the green energy era. PBL - Clean-Green Sustainable Innovation Research Center of YunTech has long invested in the promotion strategy of green energy. In 2020, it played a mediating role in promoting the popularization of local solar photovoltaic energy according to its USR goal of assisting local development. In addition to assisting a local solar cell factory "Ming Hwei Energy" to learn the solar energy construction business, the work project also provided the course and DIY practice for local communities, schools and houses in Yunlin County and surrounding counties and cities to promote the popularization of the concept of solar panel's energy-saving function.

As a result of promoting the construction in 2020, the clean green team matched the list of about 60 cases of schools and institutions willing to implement solar photovoltaic devices whose capacity was estimated to be more than 6830.3 kWp. Among them, 11 schools were assisted and accompanied by the team to make site investigation and evaluation. After

the assistance, Ming Hwei Energy successfully won the bid for three schools, with a capacity of 4237.64 kWp. The company followed the clean green team during this process to learn site investigation and bidding procedures. It transformed the operation mode of specializing in production in the past and expanded the business of "setting" solar panels, promoting its performance and possibly improving the local employment rate. This plan not only enhanced the performance of local green energy enterprises and achieved the goal of SDG8, which aims to improve employment and economic growth, but also matches green energy enterprises and campuses to have more opportunities to cooperate, promoting the implementation of SDG7 which refers to affordable and clean energy.



Site investigation of setting solar panels

➔ Implement the big data analysis of the local environment and climate with air micro monitor and AI air quality network (College of Engineering)

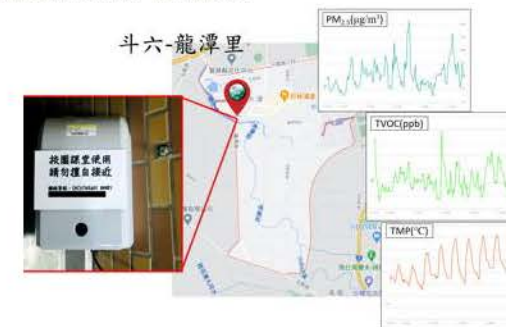
Due to the long-standing air pollution in Yunlin, the plan focuses on teaching students to deepen their study and experience of SDG13 climate change and its impact on air quality, introducing the concept of SDG into the in-depth study of air microsensors. Before the implementation, the students were guided to learn relevant knowledge and skills. The engineers of JS Environmental Technology and Energy Saving Co., Ltd. were invited to make four lectures on "the application of micro air quality sensors' monitoring data", as well as one workshop on "the setting, correction, maintenance and monitoring of micro air quality sensors" for post-graduate from Department of Environment and Safety Engineering. These helped students understand the differences between standard air quality detection methods and real-time monitoring and learn to perform environmental and climate big data analysis through the "AI air quality network". In the first semester of the 2020 academic year, we invited faculty from the Department of Electrical Engineering to co-teach the "Environmental Planning and Management" course. We used the Internet of Things for environmental monitoring with a hardware control system and two sensors to implement three-week hands-on teaching of micro-sensors to continuously monitor mobile pollution sources inside the campus, the neighborhood in Longtan village and Zhennan village. Learning and studying the data obtained from the air quality detection of residential areas inside and outside the campus can more effectively guide students to understand the substantive problems of environmental planning and environmental management.

According to the practical learning in class and field, students learned that climate change affects weather and meteorological patterns, such as temperature, humidity, wind speed, rainfall and extreme weather events, interactively affect the emission, chemical characteristics, deposition and transportation of air pollutants which may lead to poor air quality and difficult to monitor. The learning process is developed as follows:

(1) Hardware learning: The microsensor is made of semiconductor technology and certified by the Environmental Protection Agency. It can solve the problems of high construction cost and big size of large measuring stations with its advantages of low cost, small size and extensive deployment.

Students are guided to use AI environmental big data analysis to make the preliminary judgment combined with climate wind direction, wind speed, temperature and humidity. By collating pollution intervals and making statistical analyses, they can find the correlation between air quality and climate conditions.

(2) Systematic learning: Using the Internet of things of air quality, the accuracy of monitoring values is improved through a complete parallel comparison and correction system.



Setting sensor off-campus - Longtan vil.

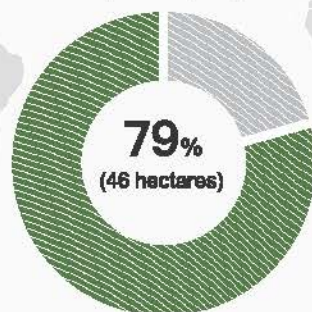
5-2 Green Campus

In 2020, it was awarded the "World Green University" competition, ranking **74** th globally and **6** th in Taiwan.

the competition includes environment and infrastructure (32nd), energy and climate change (218th), waste treatment (125th), water resources (70th), transportation (43rd) and Education (222nd)

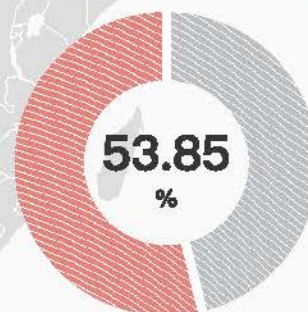
No violation of environmental regulations in 2020

Green space proportion

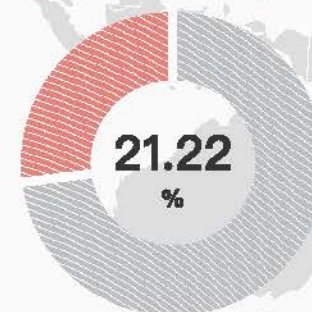


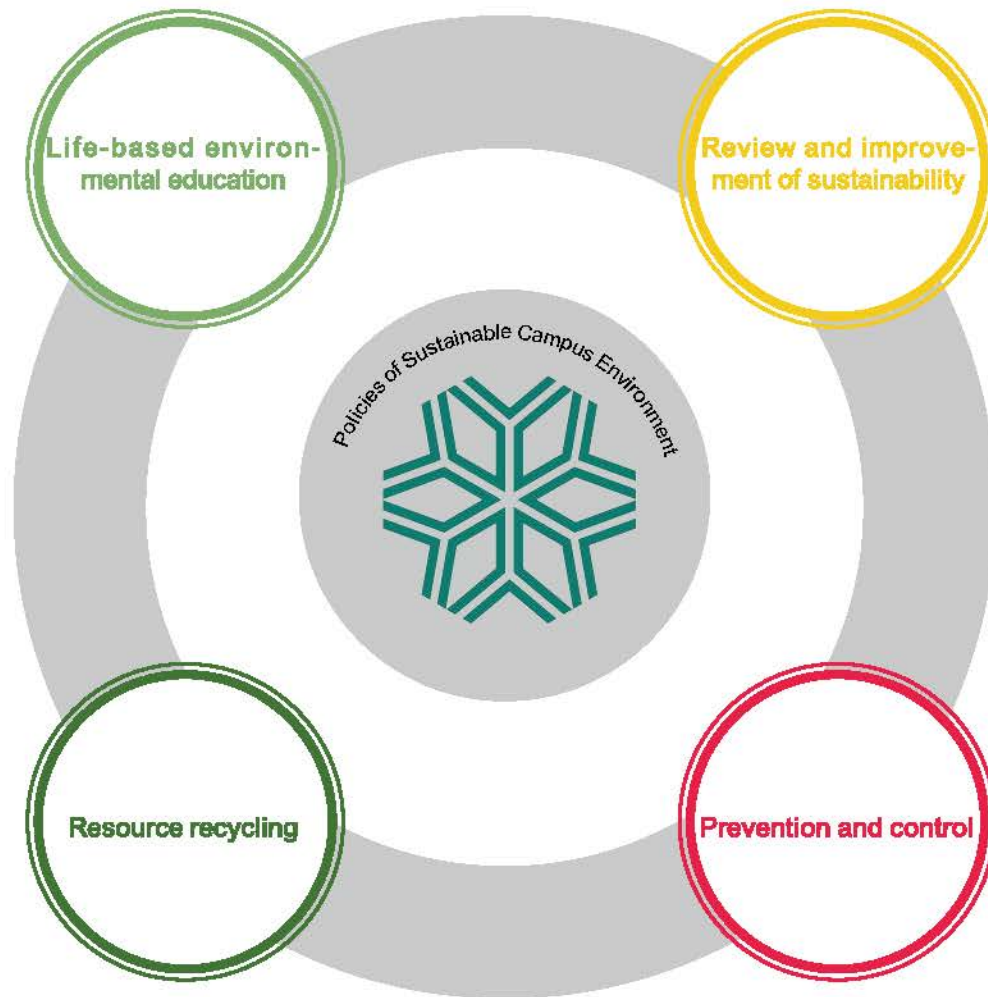
school area: 58 hectares

Wastewater recovery



Tap water recovery rate





There is a close interactive relationship between the university campus and urban development, which will drive and change the surrounding environment, and connect with the local population, social culture, etc. The implementation of campus openness makes the campus community an inevitable development trend and takes on the responsibility of social education and urban infrastructure. YunTech has comprehensively constructed a sustainable green campus and spared no effort to promote energy saving and carbon reduction. It is actively and continuously developing towards the vision and goal of a sustainable green university. With the beautiful environment, the university integrates the concept of sustainability and scientific and technological innovation, building the campus into a model school of water-saving, power saving, green energy, low carbon and intelligence.

YunTech actively invests in energy saving, and carbon reduction promotes diversified energy-saving practices and improves energy-saving by introducing high technology and green buildings. It constructs a green, low-carbon, safe and healthy campus with a friendly, beautiful, intelligent and creative environment. It has developed towards a "green, low-carbon, friendly and beautiful campus". In recent years, the university has been subsidized by the Architecture and Building Research Institute of the Ministry of the Interior for three consecutive years. Combined with the school's self-raised funds, it has carried out comprehensive functional integration for four aspects, namely "energy saving and carbon reduction, safety monitoring, intelligent transportation, health and comfort", to form intelligent management and a high-quality campus environment with energy-saving, comfort, convenience and safety.

Green Building

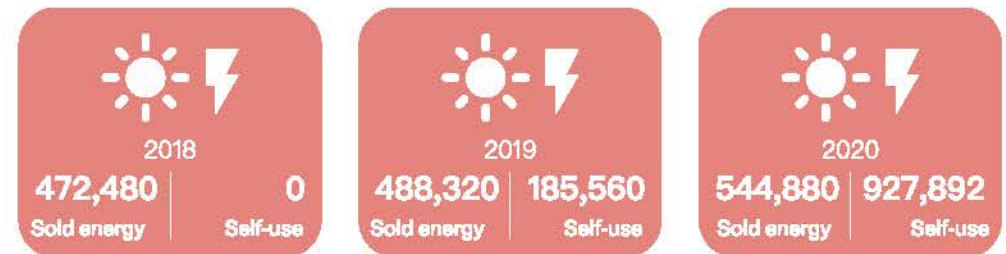
Among the campus buildings, five buildings have obtained the Green Building Label, such as Management Hall 3, Design Hall 3, Engineering Hall 5, Industry-Academia-Research Building and Comprehensive Teaching Building. Energy-saving building envelopes and heating and air conditioning are used to reduce the use of air conditioning, and air-cooling systems are set up based on the principle of natural ventilation so that the buildings can effectively use the dominant wind direction in summer.

The Industry-Academia-Research Building was awarded the diamond-level candidate green building certificate and the smart building certificate. The building is based on green building and introduces the application of intelligent high-tech technologies, materials and products to make the building safer, healthier, more convenient and comfortable, energy-saving, carbon-reducing and environmentally friendly, and also provides a field for internship and experience for cross-disciplinary programs such as "Green Technology Program" and "Clean Green sustainable Technology Program". It also serves as the best paradigm for displaying and promoting innovative achievements.

Energy Resource Management

In response to the government's renewable energy plan and to create a green, energy-saving and low-carbon environment, YunTech has comprehensively constructed a sustainable, clean and green campus, actively improved energy-saving facilities and equipment, built an overall campus power monitoring and energy-saving management system, and made use of the idle roof space of the school building to jointly promote the cause of energy conservation with the non-governmental cooperation. It can effectively activate the school's assets and equip the top floor with the effect of heat insulation and cooling. It rents the roof platform of the North Campus to the manufacturer for building a solar photovoltaic power generation system with a capacity of 495.88 kWp. The solar system on the roof can effectively use the idle space and bring a fixed income. The effect of heat insulation and cooling on the top floor can reduce the power consumption of indoor air conditioning, save energy and electricity expenditure from achieving the vision of energy security, green economy and environmental sustainability.

Solar power generation degree



In 2020, the total power consumption of the university was 17,469,492 kWh (including self-used solar power). Due to the construction of an additional comprehensive teaching building, which was opened in September, and the need for ventilation of pandemic prevention measure, the power consumption increased slightly by 82,592 kWh compared with last year, with the growth rate of power saving of - 0.48%, even having been monitored in time through the intelligent cloud management system.

*Energy use intensity (EUI) refers to the per square meter per year's energy consumption per square meter. The actual EUI is obtained by dividing the annual energy consumption by the floor area of the building.

*Carbon emission (kg) = purchased power (kWh) x carbon emission factor of electric power in the previous year (kg CO2 e / kWh)



Power consumption of the whole university from 2018 to 2020

Smart Campus

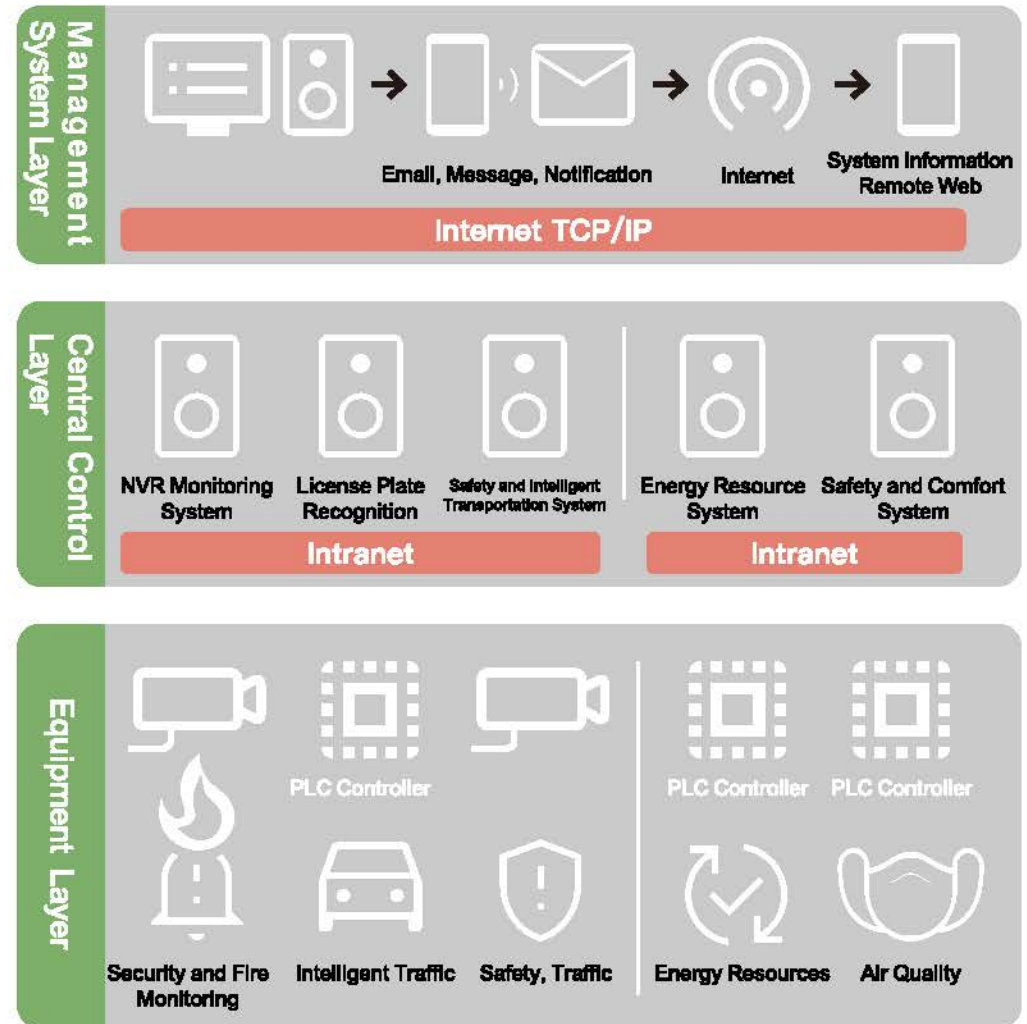
To achieve a sustainable and innovative smart campus, the Smart Campus Plan was proposed to enhance daily life safety for all students and faculty and build a high-quality learning/research environment. It planned to build four systems, namely, energy resource management system, safety monitoring system, health and comfort management system and intelligent transportation system, to achieve energy-saving and carbon reduction, comfortable and convenient environment, and sustainable management of the campus. This plan was built gradually over four years (2016-2019) and was adjusted to meet the needs and functions of the campus in 2020 to make it more suitable for use by the university.

Smart energy saving of in-class curriculum

Smart power-saving system for in-class power supply (general classroom): The plan was completed in 2019: 419 sets of classroom air conditioners were scheduled and removed (small devices); 163 sets of classroom lighting and fans were scheduled and removed, and 79 sets of classroom indoor temperature monitors were equipped. In 2020, the stability of system software was improved.

Smart control of small air conditioner

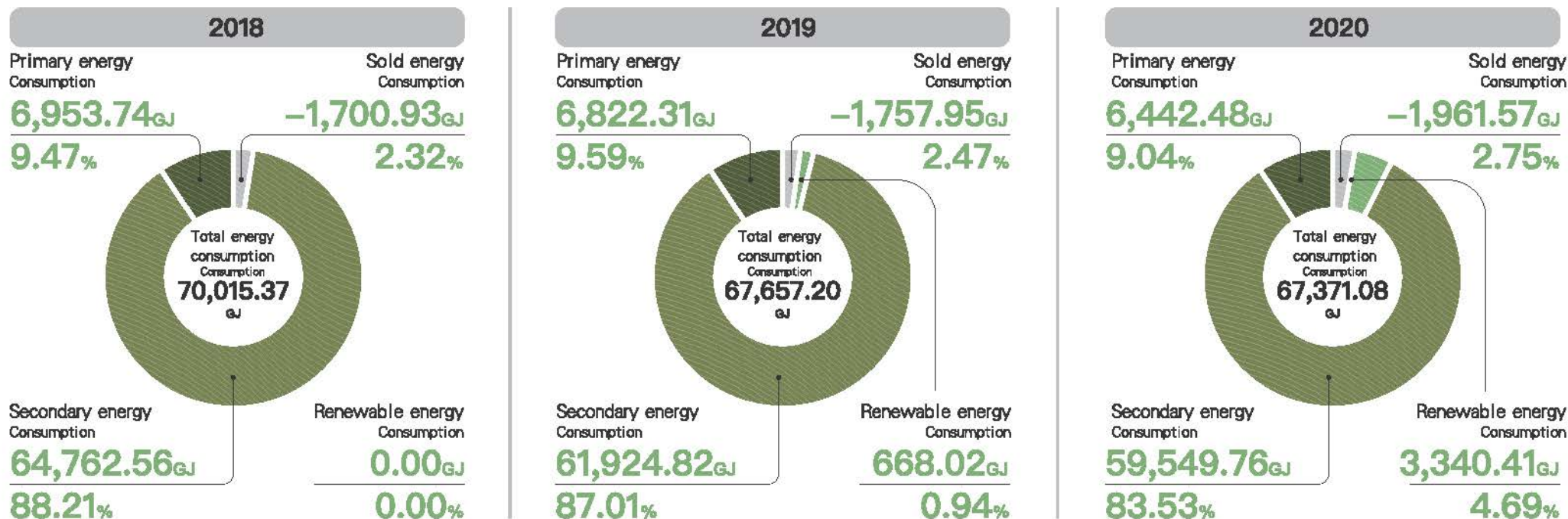
Energy-saving management and control of small air conditioner (non-classroom area): The plan was completed in 2019: 1,534 small air conditioners were scheduled and removed. Energy-saving management and monitoring can be carried out according to daily operation scheduling, external air temperature, contractual capacity and removal requirements. In 2020, the stability of system software in terms of time scheduling and cyclic removal was maintained and improved.



Campus power

Intelligent load management will be adopted to complete 31 substations throughout the campus. The high-voltage side of the electricity meter online project can monitor the real-time electricity consumption of each part of the campus and carry out load management according to the capacity of the electricity contract to curb electricity expenses. These facilities can save energy and carbon and gradually expand the capacity of intelligent monitoring of campus electricity consumption equipment as a resource for unloading regulation, improving equipment utilization. Individual electricity-saving plans will be made according to the electricity consumption situation of each department and building.

Through the management of energy resources and relevant energy-saving measures, YunTech reduced the energy consumption of the whole school to 67,371.08 GJ in 2020, a decrease of 0.42%.



* Primary energy: gasoline, diesel, gas / Secondary energy: electricity / Renewable energy and sold energy: solar energy

* gasoline calculation (J): Total liters (L) * 7,800 (kcal / L) * 4,186 (J)

* diesel calculation (J): Total liters (L) * 8,400 (kcal / L) * 4,186 (J)

* gas calculation (J): Cubic meter (m³) * 9,000 (kcal / L) * 4,186 (J)

* electricity: 1 kWh = 3,600,000 J

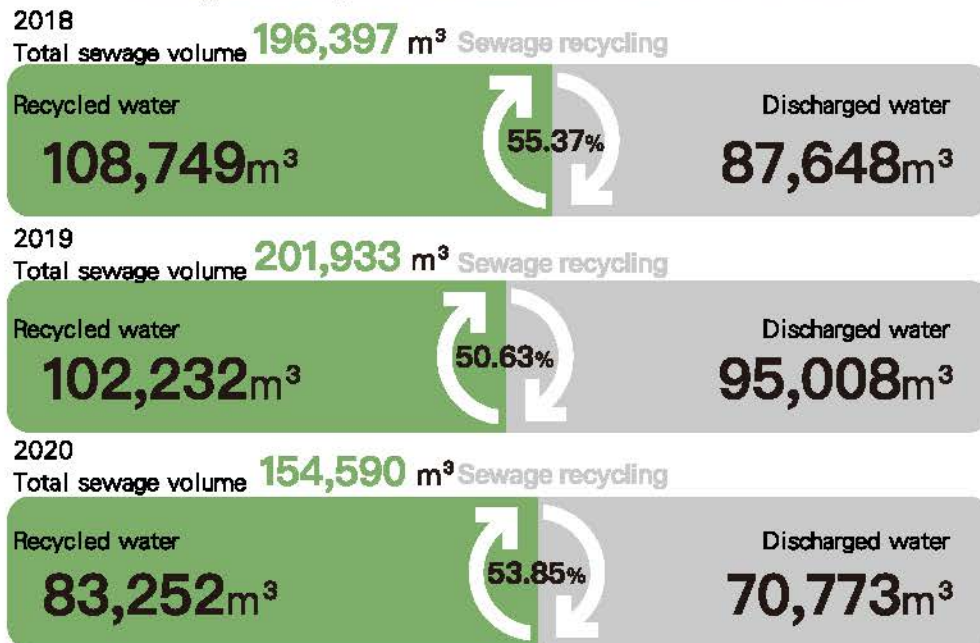
* source of calorific value: Group of Energy Technology Strategy - calorific value table of energy products

*The total energy consumption in 2018 and 2019 changed due to the deduction of energy sold outside the campus

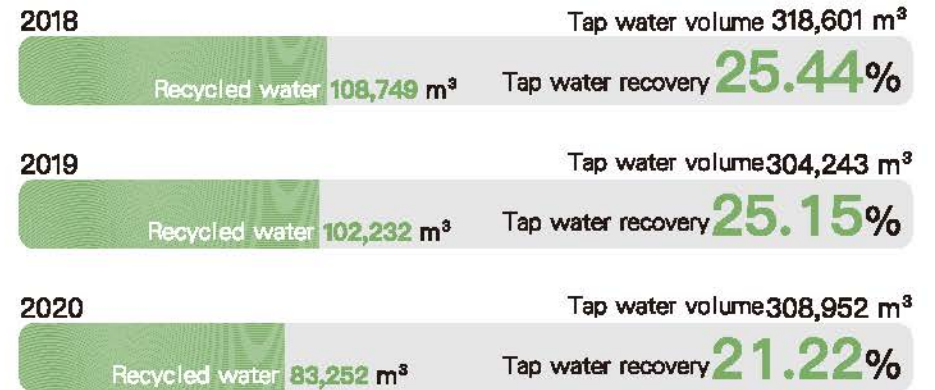
Sewage and Recycled Water Treatment

YunTech planned a sewage collection pipeline system and a sewage treatment plant at the early stage of its construction and is the first campus in Taiwan to implement water recycling and reuse. The maximum daily treatment capacity is about 1,500 tons. Biological extended aeration is used to treat the domestic sewage produced by teachers and students. Legal treatment plants properly deal with the organic sludge generated in the sewage through heat treating. With these efforts, the water quality can meet the discharged water standard and be discharged to Basjoo River Basin. The water recycling system is planned for campus landscape, fountain, fire control, road moisturizing, hydrophilic facilities and watering plants and trees.

Sewage and recycled water volume from 2018 to 2020



Sewage and recycled water volume from 2018 to 2020



*Calculation formula: Recovery rate = recovered water / (tap water + recovered water)

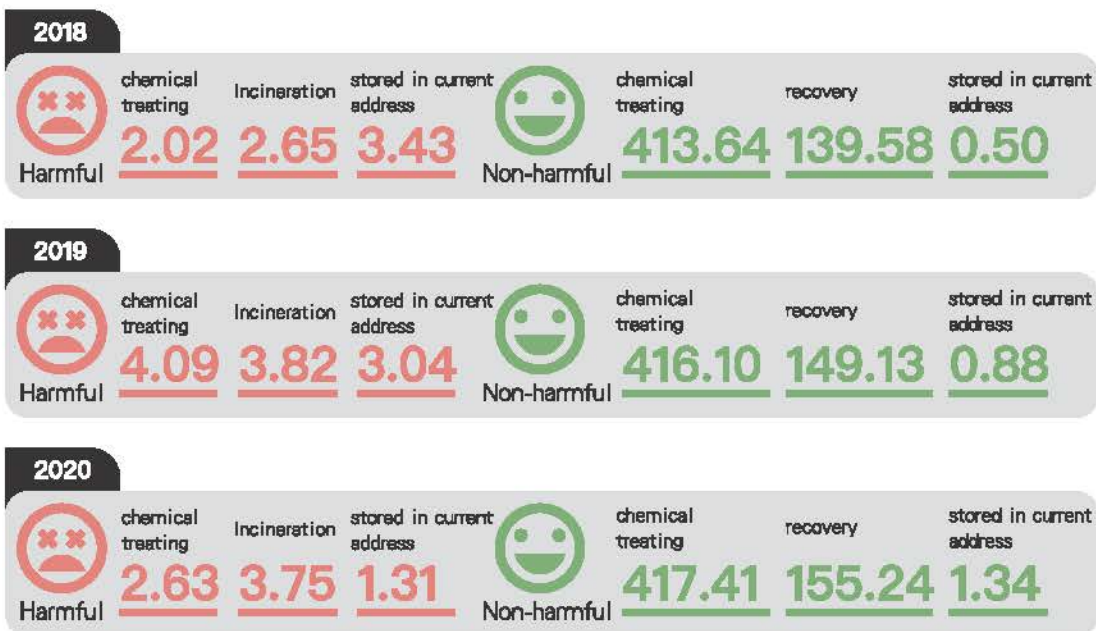
Water quality inspection 2018 to 2020

Inspection date	Inspection date	Inspection date	Inspection date	Inspection date	Inspection date
20180612	20181212	20190603	20191204	20200611	20201209
COD	COD	COD	COD	COD	COD
30.5 mg/L	28.3 mg/L	28.7 mg/L	32.8 mg/L	31.7 mg/L	35.7 mg/L
BOD	BOD	BOD	BOD	BOD	BOD
18.1 mg/L	9.3 mg/L	12.3 mg/L	14.8 mg/L	13.4 mg/L	12.1 mg/L
SS	SS	SS	SS	SS	SS
8.9 mg/L	9.7 mg/L	8.0 mg/L	10.2 mg/L	7.6 mg/L	7.4 mg/L
standard	standard	standard	standard	standard	standard

*Standard of discharged water: COD <100mg/L, BOD <30mg/L, SS<30mg/L

Waste Disposal

To effectively manage toxic chemicals and hazardous wastes, prevent environmental pollution and ensure the safety of faculty, YunTech properly classifies, stores, and removes them according to regulations to avoid environmental pollution or danger to teachers and students. The waste liquid of the school laboratory should be classified and stored according to the "Interim classification standard for laboratory waste liquid" issued by the Ministry of Education and then be disposed of by the legal waste removal and treatment organization.



Total weight of waste in 2018 to 2020 (tons)

Garbage Collection and Effective Utilization of Resources

To effectively prevent environmental pollution, promote the correct concepts and habits of campus waste reduction, resource recycle and reuse, improve environmental quality, and implement campus environmental protection, our school has formulated "key points of waste reduction and recovery management", "key points of toxic chemicals and hazardous waste management", and adopted the garbage non-landing policy to strengthen garbage classification and recovery, To ensure proper treatment. The garbage-recycling rate of our school in 2020 was 27.1%, an increase of 0.72%.

Reuse of Dead Assets

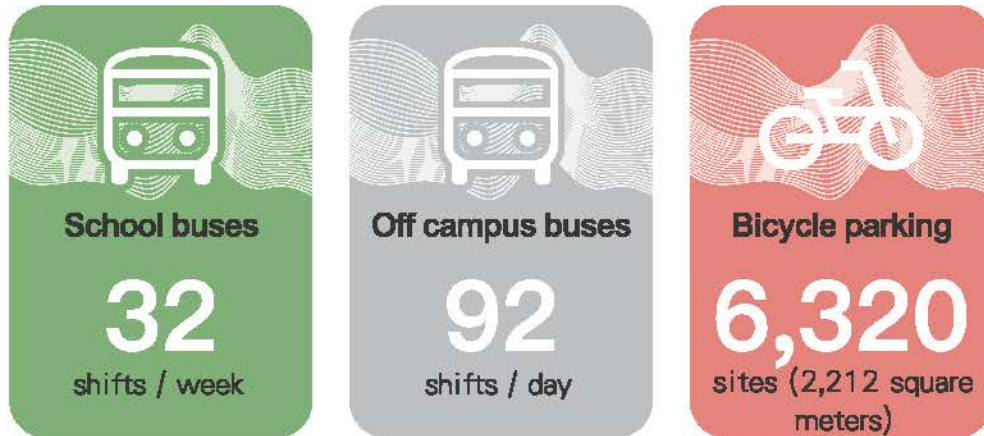
Adhere to the principle of energy-saving and carbon reduction, and resource reuse, we make the best use of objects' value. We have formulated and followed relevant mechanisms and procedures to facilitate the reuse of dead assets and endow them with innovative value. Suppose the obsolete equipment still has "use value" to avoid the waste of usable materials and achieve the reuse of eco-friendly value. In that case, it will be far more meaningful to handle the priceless gift transfer than "selling wastes and clearing up and discarding", so as to achieve the value of making the best use of environmental protection materials.

Year of gift	Equipment name	Company	Number	Treatment method
2020	Personal computer with a screen	set	13	Computers were donated to primary and middle schools in Yunlin county for continued using, to enrich students' teaching equipment, improve the educational effect, and cultivate students' virtue of cherishing and reusing material resources.

Reducing the Use of Disposable Tableware

To promote waste reduction, energy-saving and carbon reduction, protect the environment and maintain the health of the staff, students and visitors, our school promotes the reduction of disposable tableware in the diet part and incorporates the contract provisions when handling the standard outsourcing rent of the restaurant, and forbids or reduces disposable articles when providing the catering service. In 2020, all the three outsourcing restaurants provided reused tableware and continued to promote the reduction of a disposable one. They no longer provided disposable plastic straws for diners in the that and did not take the initiative to provide that for takeaway service. Those who need straws were offered biodegradable environmentally-friendly straws instead.

Green Transportation



In line with the mission of the sustainable campus, YunTech adhere to the concept of cross-domain cooperation, make engineering and design cross-domain cooperation, in response to the global warming issue, which has caused serious changes in the earth's environment, coupled with the fer

mentation of energy security and sustainable development issues, countries all over the world pay more and more attention to energy saving and carbon reduction. It completed the design of an electric prototype vehicle, setting the milestone of participating in green energy design and energy saving and carbon reduction. One hybrid vehicle is used as a business vehicle in the school. The usage will be increased according to the

During the covid-19 pandemic in 2020, school traffic vehicles actively implemented corresponding prevention measures. Vehicles were disinfected before running. Drivers and service personnel measured their body temperature before driving the bus and wore masks, and washed their hands frequently during their working time. Before taking the bus, passengers confirmed whether to fill in the health statement, measure their body temperature, and put their masks on. The masks should be worn throughout the ride to guarantee the transportation service for teaching staff while considering green transportation, health and safety.

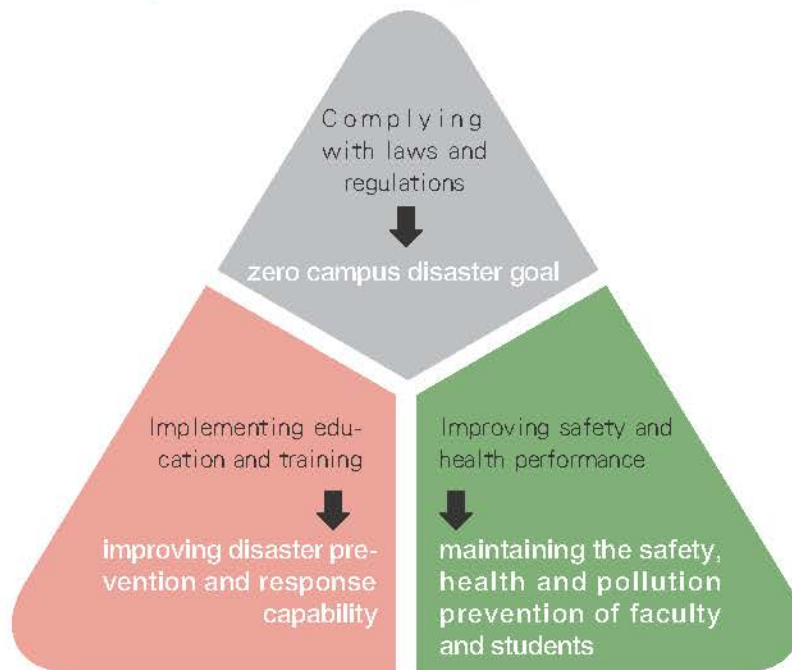
The overall planning of the YunTech campus is well-improved. A complete bicycle and walking system has been built to create a sustainable green, energy-saving and low-carbon environment and promote the use of bicycles and footpaths. In addition, with the map of main roads and buildings installed on the campus, public vehicles such as school buses and out-of-school buses are provided for teachers and students. To improve sustainable green transportation and increase the percentage of sustainable commuting, the school provides free vehicles for teachers and students to pick up and drop off and sets up bicycle lanes and footpaths for people to use. It also coordinates the local government and bus operators to set up bus service stations around the campus to improve the utilization rate of sustainable green transportation.

5-3 Campus Safety and Health

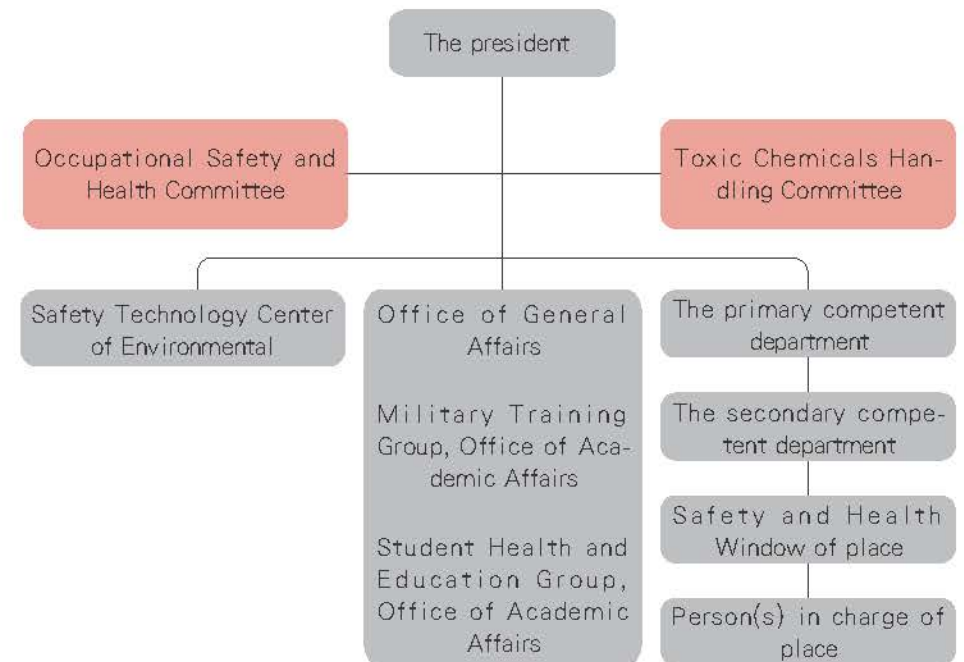


Education and training of safety and health for faculty : **6** times
 Participants : **943** people

YunTech Safety and Health Policy



To ensure the safety and health of faculty and students in the laboratories, research laboratories, trial areas, practice workshops and other workplaces, and to prevent occupational disasters, the "Safety and health management regulations for the National Yunlin University of Science and Technology" is formulated following the occupational safety and health management measures. The occupational safety and health committee and Environmental and Safety Technology Center are set up according to occupational safety and health law.

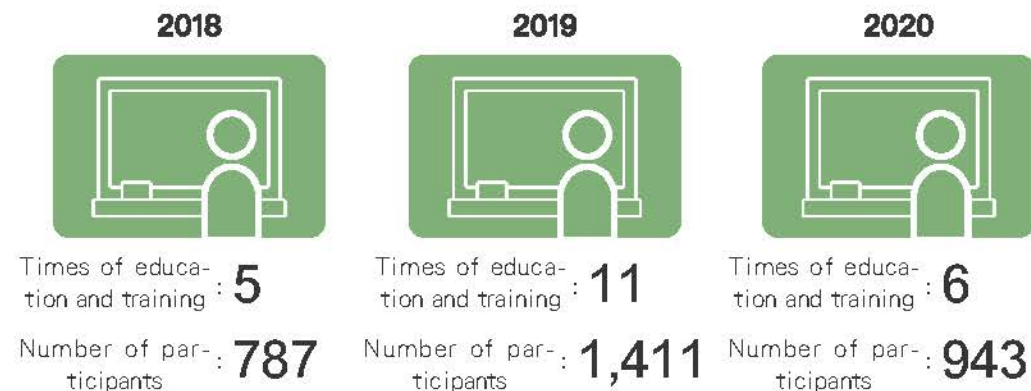


Flow Chart of YunTech Environmental Safety and Health Management System

The Occupational Safety and Health Committee consists of 19 members, the President, the Head of the College of Engineering, the Head of the College of Design, the Director of General Affairs, the Director of Research and Development, the Chair of the Department of Environmental and Safety Health, the Chair of the Department of Chemical Engineering and Materials, the Director of the Accounting and Statistics Office, the Director of the Personnel Office, the Chair of the Health Education Group, the Director of the Environmental and Safety Technologies Center, the Chair of the Safety and Health Group. And it has seven labor representatives, which accounts for 36.84% of all members.

The University's Safety and Health Work Code was amended to comply with the Occupational Safety and Health Act and its related regulations and expanded the scope of application to include most "employed workers". It was approved by the 3rd Occupational Safety and Health Committee in 2019 and reported to the Occupational Safety and Health Center in central Taiwan of Occupational Safety and Health Administration of the Ministry of Labor for registration on September 4, 2019, with the login number B108006043.

The Wednesday of the second week of each semester is designated as the education and training of occupational safety day for new and in-service faculty. Training sessions can be increased as appropriate. By advocating the education, we can shape a safety and health culture and improve the relating concepts and skills of faculty, which will help to improve their disaster prevention and response ability. The environmental safety technology center carries out irregular inspections for the laboratories of each department and requires the audited units to improve the audit results, improve the campus safety and health performance, and maintain the safety, health and pollution prevention of colleagues and students.



Number of times and participants of education and training on health and safety of faculty in 2018 to 2020

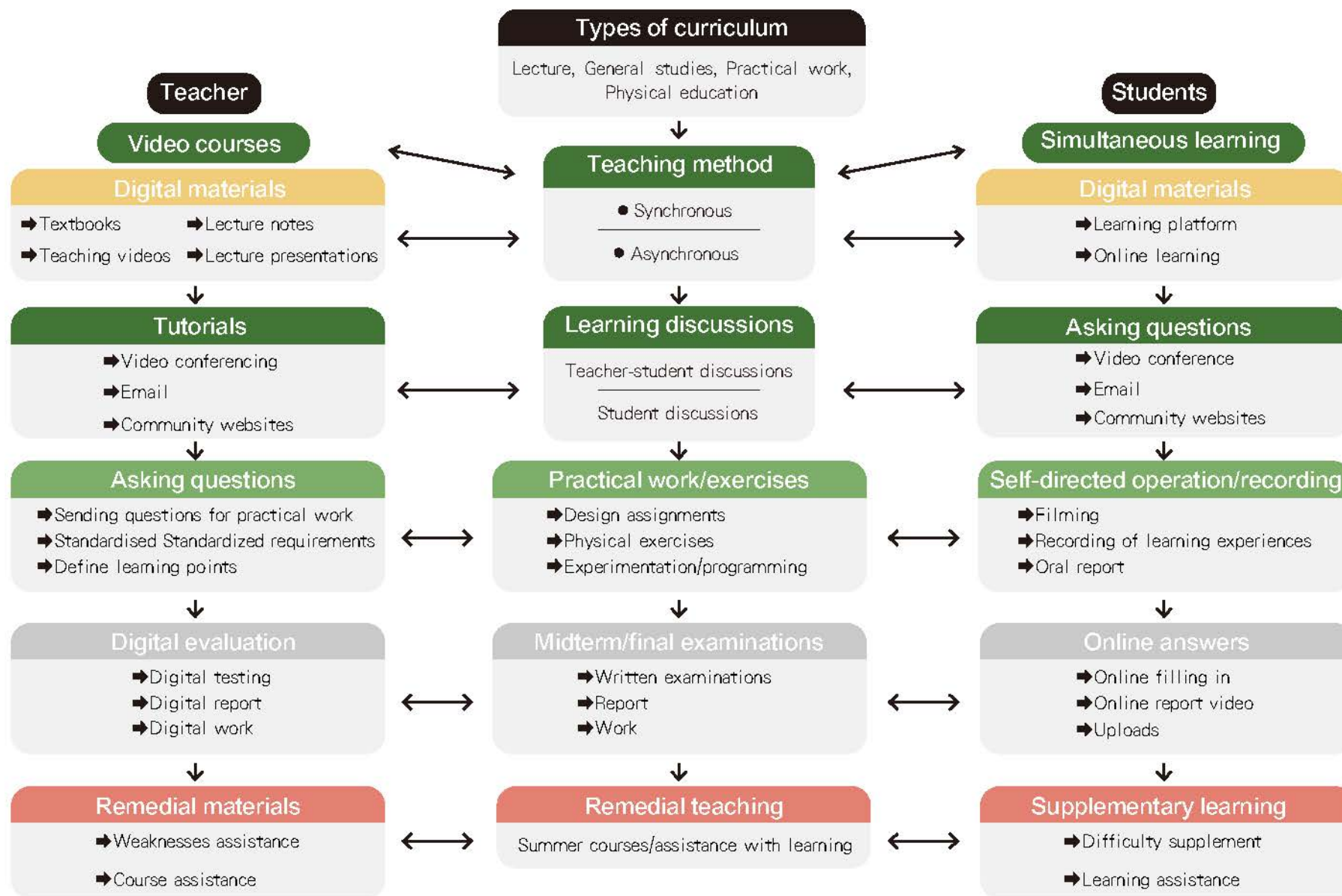
Drinking Water Management

The drinking water sources of our school are tap water, cistern and water tower. The water dispenser is regularly cleaned by the entrusted manufacturers every year. The Environmental and Safety Technology Center is responsible for maintaining the water dispensers, and the contractor is responsible for the maintenance of the water dispenser every week. The water quality inspection of water dispensers is tested by a water quality testing company approved by the Environmental Protection Administration of the Executive Yuan once every three months. The number of each inspection is one-fourth of the total machines in the school, and the test item is "Escherichia coli group". If the inspection is not qualified, the record will be immediately recorded, and the machine will be listed to remove it from use. The maintenance manufacturer will be notified for maintenance and reinspection. Only after the inspection is qualified, the dispenser can be used again. In 2020, 180 water dispensers were qualified.

Emergency Plan for Severe and Special Infectious Pneumonia

Given the expansion of the severe infectious pneumonia caused by Covid-19, YunTech has formulated a "special infectious pneumonia prevention and response plan" and set up an epidemic prevention group to maintain the health and safety of our faculty and students, in line with the relevant decrees and preventive measures issued by the Central Epidemic Command Center. YunTech has taken several preventive and control measures, including the preparation of epidemic prevention materials, the control of all school personnel and the environment, the adjustment of the curriculum, the management of school closure, health care and psychological counseling. An epidemic prevention section was established on the home page of the school. Moreover, the Department of Electronic Engineering and the Center for Intelligent Medical Research has developed the "Auto Epidemic Test Station" (4 full-automatic and 8 semi-automatics) at the early stage and placed them in 12 buildings across campus to provide temperature measurements. Later, the university obtained the subsidy from the Ministry of education for pandemic prevention and raised additional pandemic prevention funds, purchased 25 full-automatic "Auto Epidemic Test Station", and placed the machines in all school buildings for temperature measurement.

National Yunlin University of Science and Technology - Safe Schooling Measures - Design the Process of Distance Learning



The Impact of the Pandemic on the School and Our Responses

1. Suspend classes / international students' entrance:

To avoid the negative impact on students' related rights and interests, the policy of "suspend classes without suspension from school" was adopted. The Office of Academic Affairs coordinated teachers to carry out distance teaching (synchronous and asynchronous) and online teaching. There were 306 distance courses in total.

2. Personnel shortage:

Since a lot of personnel is needed for quarantine issues, health, health and psychological care, the Office of Academic Affairs was responsible for parallel connection, and all units of the university were fully divided to assist in all epidemic prevention work, while the Personnel Office assisted in the health management and care of faculty. And the office of general affairs assisted in the division of labor of epidemic prevention materials and other units.

3. Impact of school affairs promotion:

Due to the epidemic prevention measures and related guidelines issued by the Central Epidemic Command Center, some school operations have been temporarily suspended or shut down due to the inability of staff to travel, exhibit, enroll, and conduct major events. Intramural activities were postponed or hosted online.



{Conference for pandemic prevention}



4. Increase in operating costs of school affairs:

In response to the pandemic, 25 epidemic prevention stations were set up throughout the university, and the cost of human resources and epidemic prevention materials was significantly increased. After applying for subsidies from the Ministry of Education, the school obtained about 2.7 million NTD of pandemic prevention funds, which has made up the school's pandemic prevention funds. Although some of the activities or meeting places cannot be rented, reducing the rental income, the university took the opportunity to maintain and renovate the space to provide a better venue for future activities.

5. Corresponding measures of the delayed beginning of the new term in response to Covid-19:

A. Independent learning courses were set up with LMS digital platform in the school.

19 independent learning courses with credits were offered, covering the fields of engineering, design, management and humanities of the whole university. Students are allowed to take courses online during the delayed beginning of the new term. Those who passed the examination were recognized with 1 credit of independent learning. The courses were taken by 3,142 person times (accounting for 50.6% of college students).

B. Two digital learning training workshops were held, with a total of 218 participants

Two online digital learning workshops, "integrating digital technology into teaching - grasping students' attention" and "techniques of online teaching design" were conducted. In addition, 100% of YunTech teachers were physically trained in online teaching skills after the beginning of school.

5-4 Sustainable Supply Chain



Prioritized procurement:

3,514,845 NTD
(11.95%)



Green procurement:

34,711,216 NTD
(99.89%)

As a public organization, YunTech follows the Government Procurement Act to ensure procurement quality and enable all units to have the law to comply for procurement of works, finance and services. According to the law and its relevant regulations, the Procurement Act of the National Yunlin University of Science and Technology is formulated. A tender is required for the procurement case of the university with a procurement amount of more than 100,000 NTD. In 2020, the number of suppliers of such cases was 230, with 100% of local suppliers. Their procurement expenditure was 285,943,221 NTD, with 100% of local expenditure. Most of our local suppliers are located in the Taipei Metropolitan Area and the region of Yunlin, Chiayi, and Tainan.



Works

New construction, addition, reconstruction, construction and demolition of structures and their equipment above and below the ground, and change of the natural environment.



Finance

Various items, materials, equipment, machines and tools and other movable properties, real estates, rights, etc.



Services

Professional services, technical services, information services, R&D, operation management, maintenance, training, labor, etc.



2018 Procurement amount:

NTD **268,033,049**

Ratio of local suppliers' procurement amount

100%



2019 Procurement amount:

NTD **293,665,288**

Ratio of local suppliers' procurement amount

99.99%



2020 Procurement amount:

NTD **285,943,221**

Ratio of local suppliers' procurement amount

100%

*Local supplier: It means that the supplier is based in Taiwan

Inspection of High-risk Catering Service

In order to ensure the safety and quality of campus catering, YunTech established a catering hygiene management mechanism under the joint inspection of the operators, the university and the Ministry of Education to safeguard the health of faculty and students.

YunTech catering hygiene management mechanism

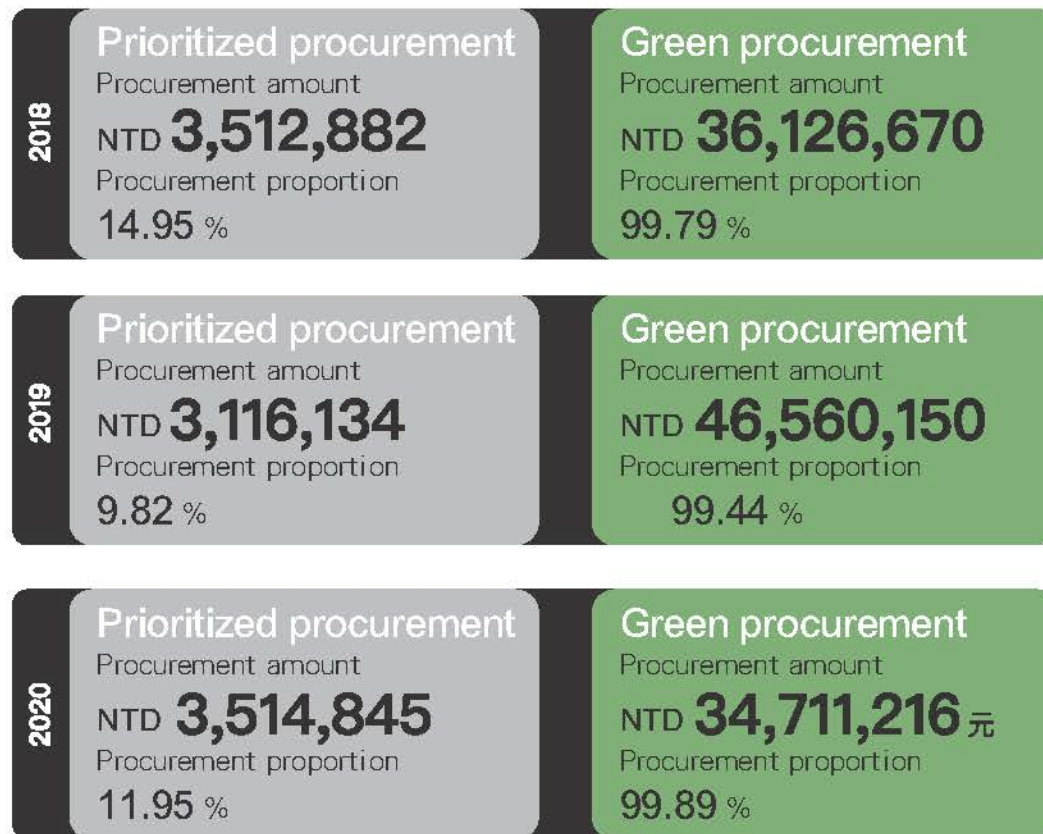
1. A "catering hygiene inspection group" is held every year consisting of members of the Dietary Guidance Committee, catering supervisors and part-time nutritionists. They conduct an inspection for catering hygiene of each restaurant every week (including tableware cleanliness test and oil aging test for frying-used oil).
2. The operators shall carry out independent inspections according to the items in the independent management scale every day. The school inspectors shall confirm the work every week. And, the Ministry of Education needs to conduct on-site guidance once a school year. Among the three restaurants set up in 2019, one passed the assessment, and two passed after making up for their deficiency.
3. Since 2019, the food hygiene and inspection department of Yunlin County Health Bureau have been entrusted to carry out limited detection of microorganisms (E. coliform group and coliform) for lunch boxes twice an academic year. The results of the 11 kinds of lunch boxes randomly selected for the E. coliform group/coliform test in 2019 were consistent with the regulations.
4. The test results were published on the Health Education Group of the Office of Academic Affairs website for the reference of all teachers and students before having meals.

Prioritized Procurement and Green Procurement

Prioritized procurement: To protect the physically and mentally disabled, the government regulated that public agencies and units at all levels should prioritize purchasing goods and services produced and provided by them. At present, according to the prioritized procurement, the annual compulsory procurement amount of specific goods and services produced by the disabled should reach 5% of the total amount of special projects.

Green procurement: YunTech promoted the concept of sustainable resource regeneration, made use of the purchasing power of government agencies, gave priority to purchasing eco-friendly products, and raised a green consumption custom. These efforts encourage institutions to save resources or reduce environmental pollution in obtaining raw materials, manufacturing, selling, using and discarding products. The government formally legislated and forcibly promoted green procurement and stipulated the green procurement objectives, product projects, and product standards. Article 22 of the Resource Recycling Act also states that each agency and public school shall preferentially procure government-recognized environmentally preferable products (those are recyclable, low-pollutant, resource-saving and meet the environmental protection regulations), and also lists in detail the items of environmentally preferable products that should be given priority to purchasing and the annual procurement proportion.

Therefore, according to the ethical procurement policy and the requirement of the superior authority, YunTech notifies the proportion of prioritized procurement and green procurement of food and supplies every year. To implement green procurement and undertake social responsibility, YunTech has practiced fair and reasonable systems and formulated ethical procurement policies for food and supplies, maintaining a green procurement proportion of more than 99% and a prioritized procurement proportion of more than 5% in recent three years.



*According to the Ministry of Health and Welfare regulations, the proportion of prioritized procurement of goods and services produced by welfare institutions for physical and mental disabilities or sheltered workshops should reach 5%.

*According to the regulations of the Environmental Protection Administration, the proportion of green procurement should reach more than 95%.



06



Social Integration and Placemaking

Major Topics in the Chapter
Social Integration and Placemaking



Management Policy for major issues and their elements

Major themes of YunTech's sustainable development

Social integration and placemaking

Reasons for major themes

With a commitment to university social responsibility (USR), YunTech takes "promoting social practice" and "fulfilling university social responsibility" as two main targets by integrating USR and placemaking development into its administrative tasks.

Specific themes of GRI Standards

GRI 203: Indirect economic impacts

Policy

Follow the Strategy of YunTech's Medium-term Development Program (2020-2024) to assist incubation and integrate related sources for cooperation at university, social and industrial levels; encourage teachers to go outside and solve regional issues with the expertise of each institute based on local demands.

Commitment

➔ To fulfill local social responsibility, YunTech aims to make following USR teams of teachers and students continue to help local citizens with the mission of co-existence (such as NGOs, local governments or youth groups) to effectively integrate with existing local institutions and resources expand comprehensive effectiveness.

➔ The past USR operating model featured by industry-academia collaboration is the sustainable basis for YunTech to promote USR, which focuses on how to accelerate the integration with formal courses, enhance students' participation, arouse the sense of mission of students at Yunlin County, and involve other students outside the county for joint efforts.

➔ To head towards the sustainable society, economy, and environment following social changes of Taiwan and the sustainable development goals.

Target and goal

➔ Short-term: Expand existing practice bases for USR to 50, the percentage of students learning USR-related courses rises to 30%, the number of manufacturers in NTU Innovation Incubation Center rises to 33 in total, and the percentage of international students increases to 6%.

➔ Medium-term: Continue to solicit teachers to enter practice bases for USR in Taiwan.

➔ Long-term: The fulfillment of social responsibility is an important theme of sustainability. Related work emphasizes "promoting social practice" and "fulfilling social responsibility by USR program" through concerted efforts of teachers, students, and community residents to advance USR for social integration. To effectively promote USR and social integration, the university's social responsibility with the United Nations Sustainable Development Goals, Douliu development to international connection is the long-term goal of YunTech to develop the university's social responsibility.

Responsibility and system

➔ External responsibility: Implement the local practice from region to the global, and incorporate the partnership with "YunTech is everywhere" as a value of social practice. Broaden students' international horizons, "promote partnership" and "cross-domain knowledge exchange", and actively send students to overseas organizations for exchanges and cooperation.

➔ Internal institution: Enlarge teachers' participation and create more teaching energy. YunTech plans to improve the supportive teaching system within the university by various aspects, including course design, implementation planning, teaching innovation, technical assistance, and a professional complementary and sharing platform. The value of highlighting this project lies in the Social Practice Center and Social Practice Platform.

Responsibility and system

- ➔ Construct an effective systematic knowledge base of social practice
- ➔ Implement the model of Total Solution to solve industrial problems accurately
- ➔ Teachers, students, and stakeholders shall cooperate and share resources
- ➔ As no-risk events happened from 2018 to 2020, the existing measures for community placemaking and integration should be maintained.

Investment resource

An investment of about NT\$10.14 million

Management Policy for major issues and their elements

Complaint mechanism

- ➔ Advice System of Administrative Affairs
- ➔ Complaint and Comment Committee of Teachers and Students
- ➔ Guidelines for Students Complaints

Specific strategy / Action

- ➔ Hold social practice workshops, speeches, and experience-sharing meetings on international cases.
- ➔ Construct systematic knowledge base of social practice
- ➔ Strengthen the interactive community relationship among seed teachers
- ➔ Establish the Sustainable Development and Social Practice Research Center
- ➔ Advance sustainable environment and ecological education
- ➔ Sharing resources among cross-school libraries
- ➔ Speed up industrial links and sustainable economy to cope with communities
- ➔ Combine social resources to promote local care and education
- ➔ Head towards sustainable culture with cultural promotion
- ➔ Promote three themes of agriculture, environment, and aging services, and construct "Yunlin local science" by using the AEAT model with technology as tools

Output performance/ Evaluation mechanism

*A comprehensive comparison between the achievement of annual goals and last year's performance

Targets being reached

- Number of students studying USR-related courses: Occupy 38.05% of university students with an increase of 3.19%
- Continue to stay at Yunlin County and other USR practice bases of Taiwan: 84 in total and 36 added
- Number of manufacturers in NTU Innovation Incubation Center: 36 in total and 3 added
- Number of sister schools: 338 in total and 5 added

Targets not being reached

- Percentage of overseas degree students: 5.23% with a decrease of 0.12%

Improvement plan:

Due to the Covid-19, students from Hong Kong, Macao, and other regions of the Mainland who have suspended the schooling and cannot enter Taiwan have increased, resulting in a decrease in the ratio of overseas degree students in 2020. During this period, relevant enrollment publicity activities were still ongoing to recruit excellent international students.

- Open USR-related courses: 58 in total and 8 reduced

Improvement plan:

Due to the Covid-19, teachers have less willingness to participate in the USR program. Business units should continue to encourage school teachers to open USR courses.

- Times of workshops, achievement exhibitions, seminars, and special lectures: 43, reduced by 30

Improvement plan:

Due to the Covid-19, YunTech has adopted many epidemic prevention regulations, resulting in a reduction in social practice activities. At present, the whole school teachers have gradually become familiar with implementing distance teaching. Teachers will be invited to take more online activities to promote social activities in the future.



6-1 Strategies and Goals of Social Integration

With the promotion of sustainable concepts (SDGs) of the United Nations and university social responsibility (USR) by the Ministry of Education, YunTech has changed from a field role of cultivating students to a provider of local support to enhance the overall national sustainable development. To achieve this goal, YunTech has set up a Sustainable Development and Social Practice Research Center. With abundant research resources, YunTech has further shouldered the responsibility of social services.

As for special conditions of natural resources and cultural environment at Yunlin County, local relationships of YunTech are much more special than those of ordinary universities. That is to say, while pursuing technical specialty and industrial-oriented services, YunTech also pursues a common cooperative relationship between the university and local partners through the services and cooperation among the industry, government, university, and research institutes. Owing to this, from early community construction, professional service learning, industrial learning projects, local government entrustment, to social responsibility of Ministry of Education and placemaking of the National Development Council recently, the past 30 years have witnessed the establishment of platforms and opportunities for more in-depth practice. What YunTech has focused on and continued to inherit is how to cooperate with more governmental and non-governmental organizations through professional knowledge and skills to form a more flexible interdisciplinary team. Along with scientific technology and innovative application, YunTech should improve tools and methods to solve problems and cultivate young talents with more social vitality during the practice.

Core Vision of YunTech's USR

University social responsibility represents the symbol of concern and assistance in solving social issues. Starting from the essence of education, YunTech hopes to figure out how to help solve social issues employing fieldwork, design training, social design, experience design, and service design. Moreover, university social responsibility and problem-based approaches are introduced to guide students in mastering emerging technologies and dealing with social issues. Students are expected to face rapid changes of new challenges and complex situations to solve problems perfectly. In 2020, cross-domain teachers organized two USR teams to develop raising chicken in Yunlin and Guilin Community at Gukeng Township, respectively and subsequently developed various USR projects in different fields. After entering into the field in a long-term, systematic and continuous way, college students can be cultivated to understand more about the chicken-raising industry or local historical and cultural development of the Guilin community and the problems of industry and community to meet the needs of the people. Therefore, the community with population loss and the widening urban-rural gap seems to see the glimmer of new birth.

Considering the diversified learning styles of current students, the learning process is limited to the education in the classroom and the training of students with abilities of cross-domain cooperation, improved technology, and multiple opportunities to explore problems in real fields. Hence, the university carried out several strategies to support YunTech's USR at the campus from three dimensions of "university promotion mechanism", "teacher's instruction and guidance," and "student's real field test". We successfully coordinated local and non-profit organizations together for connections with social practice and formed a deep sense of trust with industries to help them add values and transform. Representative practice cases, regardless in dimensions like "preservation and reuse of cultural assets", "development of characteristic communities and industries", and "rebirth of traditional local industries", can be found in villages within Yulin County and outside (such as Laiji tribe at Ali Mountain, the Penghu Islands, etc.).

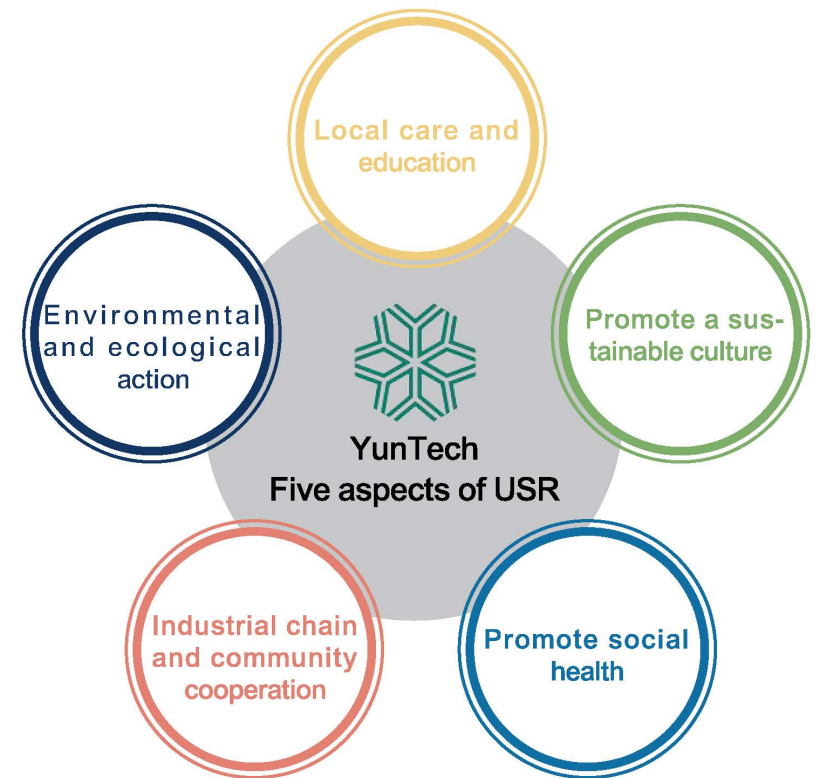
Establish Sustainable Development and Social Practice Research Center

To ensure that USR is connected with education and administrative businesses to develop, the university built up the Sustainable Development and Social Practice Research Center. In addition to focusing on sustainable development and the ecological environment, the University has also included elderly and young children issues. In 2020, it aimed to develop themes and fields with local characteristics to solve problems at Yunlin and local areas. In addition to the sustainable development goal, also



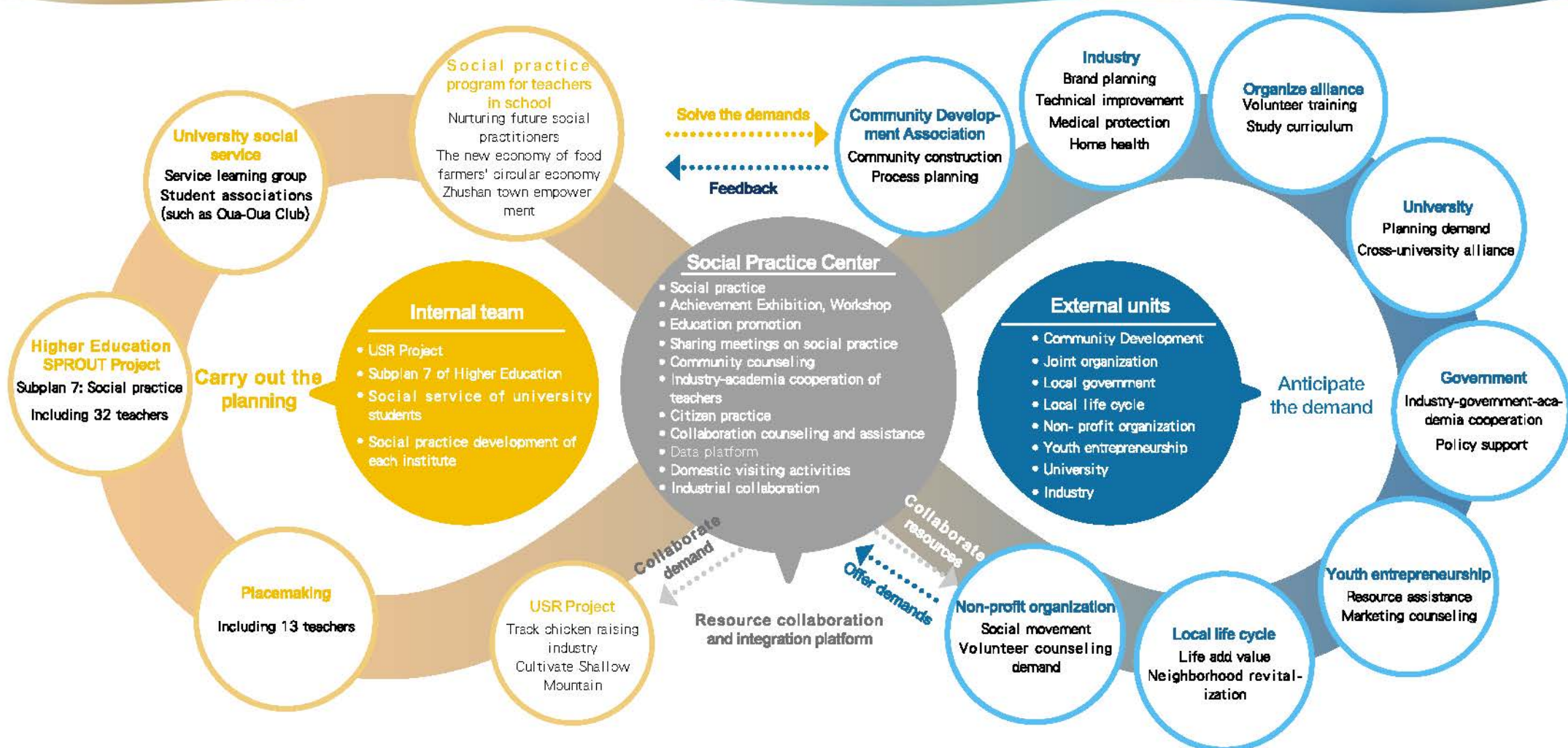
永續發展與社會實踐研究中心
 Center for Sustainable Development & Social Practice

plans five aspects of USR practice based on the guiding principle of "fulfilling university social responsibility" promoted by the Ministry of Education's Higher Education SPROUT Project. Hence, teachers can have a common vision and direction in participating and implementation USR related programs.





The operating mechanism of YunTech's USR-Hub



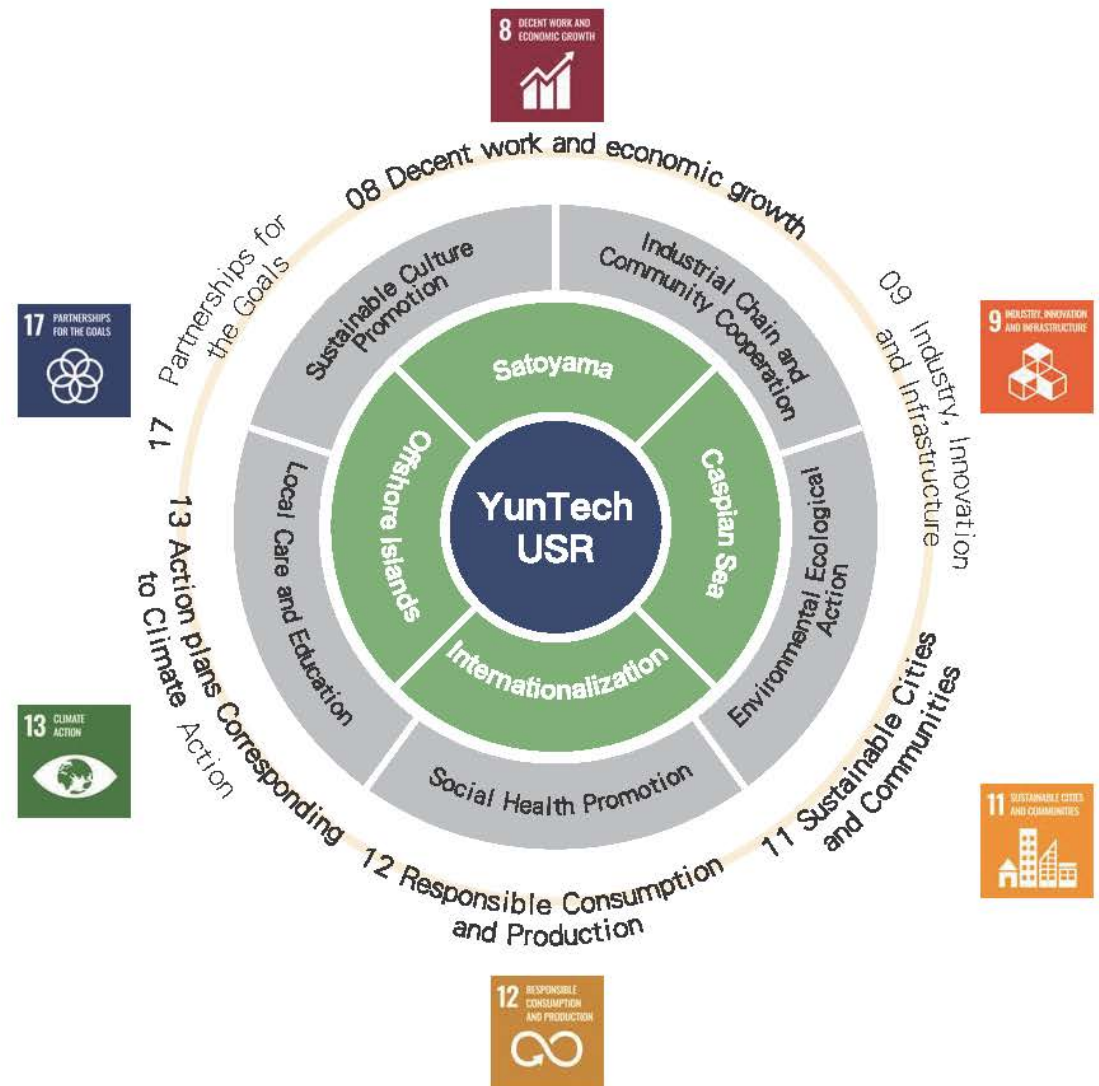
With the purpose of "to serve local industries, teachers, and students", YunTech is devoted to promoting social harmony and integration. The establishment of this Center can help expand both the width and depth of USR promotion tasks of the university. Moreover, it can improve the complementary and connectivity of related practical tasks in the aspects of administration, instruction, and research. Furthermore, this Center is responsible for incubating the USR Hub, assisting horizontal connection of programs, providing related knowledge, resources, and tools, and supporting groups to cultivate, practice, guide, and supervise practical fields. Relying on this Center, key characteristics and resource integration of USR can be developed to lay a solid foundation for the university. Additionally, we also look forward to working with residents to promote USR.

The Commitment of YunTech's USR

With SDGs as the target, YunTech focuses on solving the local issues of Yunlin and encourages all the teachers to work together. By integrating the expertise of various institutes to solve regional issues, YunTech involves more teachers to participate in social practice inside the university through the incubation and coordination of responsible units. In 2021, YunTech has organized 46 project teams and 2 USR teams of the Ministry of Education to deal with local issues with different scales and angles in 9 villages and towns in Yunlin County and 6 counties and cities in Central and Southern Taiwan. Using a specific context of YunTech's social practice, YunTech established an innovation participation platform to trigger teachers from bottom to top and lead students to join in social practice for local prosperity.

In recent years, the results of social practice are becoming more integrated and concentrated in the distribution of themes and fields. In addition to the sustainable plan, there are still issues about multiple fields and themes to deal with. Therefore, we will continue cultivating new planning teams and call on more participation and dedication of teachers and students with professional skills. Referring to the 17 sustainable development goals of the United Nations, six priorities have been put forward to deal with themes and fields. Due to issues and demands of different fields, homogeneous teacher teams are allocated to offer assistance.

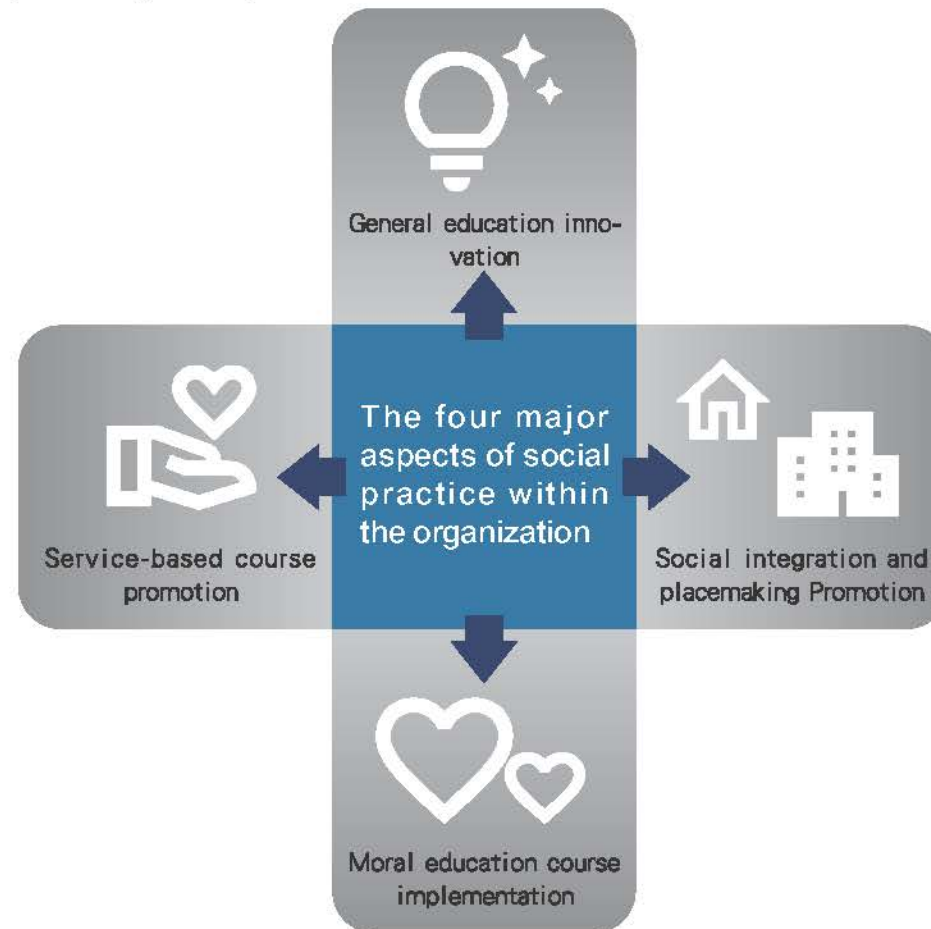
Moreover, it is expected to expand the social influence of universities to 96 practice sites from 2020 to 2022. In the future, by fulfilling university social responsibility, we will continue to embody the power of education and knowledge, and promote the sustainability of the local economy, society and environment as an important and influential party. We welcome your participation.



6-2 Internal Social Practice Within the University

Taking humanistic care cultivation, application-oriented energy accumulation, social and global influence, harmonious, diversified, and sustainable campus as its goals for social integration, YunTech hopes to build a society with cultural diversity, educational solicitude, innovation creativity, environmental sustainability.

To achieve this social vision, multiple strategies are promoted:



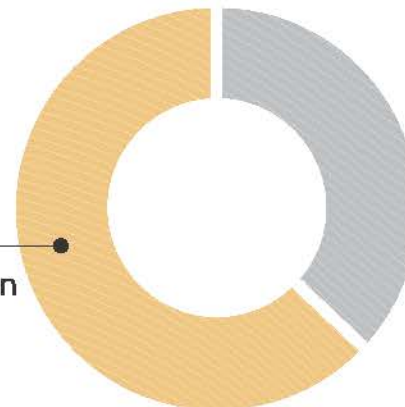
Basic General Education Innovation to Cultivate Students with Cultural Diversity and Humanistic Literacy

We keep holding intensive meetings for general-education teachers to improve teaching methods and curriculum contents. Teachers are expected to learn across fields and pass on knowledge to students. Compulsory courses gradually changed into elective courses of interest to loosen the restrictions on categories, enabling students to choose courses. Combining USR, PBL, and micro-training practical courses, creative thinking, and teacher community of information literacy, general education courses can provide a blueprint for future academic interest through special themes to enhance students' abilities to explore independently and solve problems by interest.

Since 2018, three compulsory courses, including "Life Education", "Civilization Change," and "Constitutionalism and Rule of Law," have been integrated into general education courses, after which the credits increased from 8 to 14. In 2020, five "Social Dream Maker" courses were opened and integrated into general education courses, with 165 students participating. Moreover, in 2022, they will be included in the compulsory courses of YunTech. The purposes of those courses are to focus on teaching students to understand and practice university social responsibility. By introducing USR knowledge into education and sharing USR cases by different teachers, students can enter the community practice field to explore related issues and think about how they can offer help. Finally, by fulfilling university social responsibility by producing special topics, the students can make their expertise deeply connected with local social issues and create new opportunities.

63%

Teachers joined in the operation of the teacher community



Promote Service-based Courses to Carry Out the Spirits of Education Solicitude and Lifelong Learning

Freshmen joined the diversified service-based plan

1,400 People

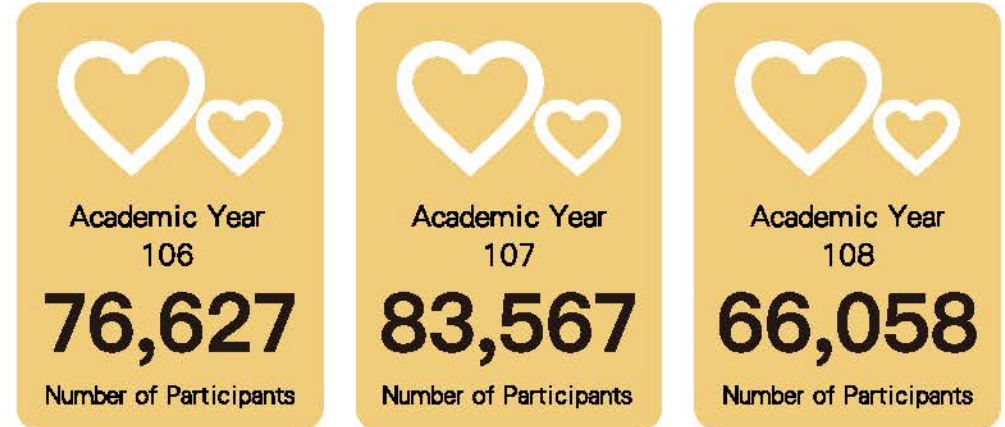
every academic year



Both day freshmen and transfer students of bachelor's classes at YunTech shall take service-based learning courses to achieve the purpose of service-based learning popularization. According to service-based learning, curriculum planning contains four stages: preparation, service, reflection, and celebration. The contents of service-learning are diversified, including the assistance in campus environment arrangement, administrative affairs, and other activities. Furthermore, we will promote service-learning both within clubs and neighborhoods to offer students more choices and create a good relationship with communities, contributing to society.

Significant Achievements Have Been Made by Implementing Moral Education Courses

Taking the deepening of moral education as the basis and core of general education, our university integrates moral and life education. With the vision of holistic education, YunTech hopes to improve both the understanding and implementation of holistic education courses by sharing teaching concepts and experience through the teacher community.



The number of participants and growth rate for moral education activity from 106 to 108 academic year



Promote Social Integration and Placemaking



Funded by Higher Education SPROUT Project, cross-domain teacher groups are formed as a preliminary USR Hub Group to cover local issues combined with different forms of curriculum like courses and workshops. In 2020, 84 practice bases were newly developed, which planned to involve 3,997 participants (265 teachers and 3,732 students) in total. In the future, by fulfilling university social responsibility, we will continue our efforts in reflecting the power of education and knowledge and promoting the sustainability of the local economy, society and environment as an important and influential party. We welcome your participation.

Continue to intensify the participation of teachers and students in social practice, coordinate and plan the fulfillment of USR with social practices relying on Sustainable Development and Social Practice Research Center, and establish the communication platform for the circulation of resources, workforce and knowledge. What's more, USR-related courses have been opened involving a total of 56 teachers (which makes up for 16.37% of full-time teachers) by the cross-department teacher community of social practice.

Taking the United Nation's SDGs and university social responsibility as basic spirits, YunTech aims to achieve the vision of becoming a "pragmatic and practical university of science and technology". In terms of specific goals can help teachers and students accumulate energy for application-oriented research with local, industrial, social, and global influence. By connecting schools and local governments, YunTech can lay a foundation for PBL curriculum with emphasis; and by constructing a social practical knowledge system and implementing aesthetic education, YunTech can perform better in practical social ability.

In 2020, the annual investment in social practice was NT\$10.14 million, bringing out the following specific effects within the university:

1. Invested in public reading space: The average annual cost of software and hardware for university students is 3,689 NTD (which increases 1% annually).
2. 56 teachers were involved in the cross-department teacher community for social practice (which occupies 16.37% of full-time teachers).
3. Established the university-level “teacher community of social practice” to support social practice.
4. Teachers shared USR experience and textbooks/application results of teaching method through a series of light spot social practice activities.
5. Provided students with opportunities to improve technologies and earn internships.
6. 46 plannings for social practice and placemaking were collected, involving 46 groups of social practice teacher teams which consist of teachers, students, and administrative units.
7. The Social Practice Center and three teachers jointly developed three USR toolkits (marketing management, design thinking, and service design). The prototype stage has been completed this year, and the follow-up test is ready. In the future, school teachers can change their teaching methods with the help of toolkits and target more towards social practice.
8. The additional monthly salary of host for school-level teacher communities is used for community operation to echo the establishment of the community.
9. According to reward points, those who serve as the host/co-host of the university social responsibility practice plan of the Ministry of Education, as well as those who offer courses on social practice to be approved as characteristic courses by the curriculum committee, were promoted with more scores in the evaluation.

Small-sized lectures of light spot social practice

5 times

students

62

teachers

35

Field study of university social practice

3 times

students

51

teachers

15

Joint achievement exhibition and exchange meeting

4 times

Total Attendance

309

10. Support the cross-university alliance and participate in USR programs of other universities

To fulfill university social responsibility, our university promotes industry-academia collaboration and enhances the opportunities of industry-academia library resource sharing and cooperation. In 2020, YunTech hosted “Walking Library E-magazine - read magazines, win bonuses” and other resource-sharing activities like course researches and borrowing-with-gifts of alliance schools to promote industry-university technology transfer and cooperation. For special interest group (SIG) in shallow mountains, it is operated by National Yunlin University of Science and Technology, Taiwan Southern University of Science and Technology, Tainan University of Technology, Shu-Te University, National Kaohsiung University of Science and Technology, Da-Yeh University, and other schools. They have in-depth discussions on resource sharing, student training, curriculum design, and field management. They also take the initiative to participate in various activities and lectures about USR organized by each university and co-organize activities with the SIG community. Also, YunTech visited the placemaking base at Hengshan of Shu-Te University twice and the old house reconstruction field of Shennong street of Southern Taiwan University of Science and Technology to learn from members of the project team and find out the possibility of follow-up cooperation. In addition, we also accepted the invitation of many organizations to speak and share our USR experience. When it comes to cross-university cooperation of USR in raising chicken, we cooperate with sister' schools. For example, we worked with the Department of Horticulture at National Chiayi University to jointly train a group of entrepreneurial teams under Global GAP to discuss the preparation of U-start entrepreneurial proposal, entrepreneurial model, winning the subsidy of Phase I U-start Plan for Innovation and Entrepreneurship. Moreover, we cooperate with the College of Agriculture, Department of Food Science, and Department of Animal Husbandry at Tunghai University to carry out cross-university industrial planning and collaborative teaching. We joined in USR cross-university forums organized by National Chung Hsing University, covering international connections, budding projects, university characteristics, deep cultivation, and USR Hub project exchange, to involve more teachers and students while the chicken-raising USR project is considered the sharing group of university characteristics and budding projects.

11. USR of teachers and students and international cooperation

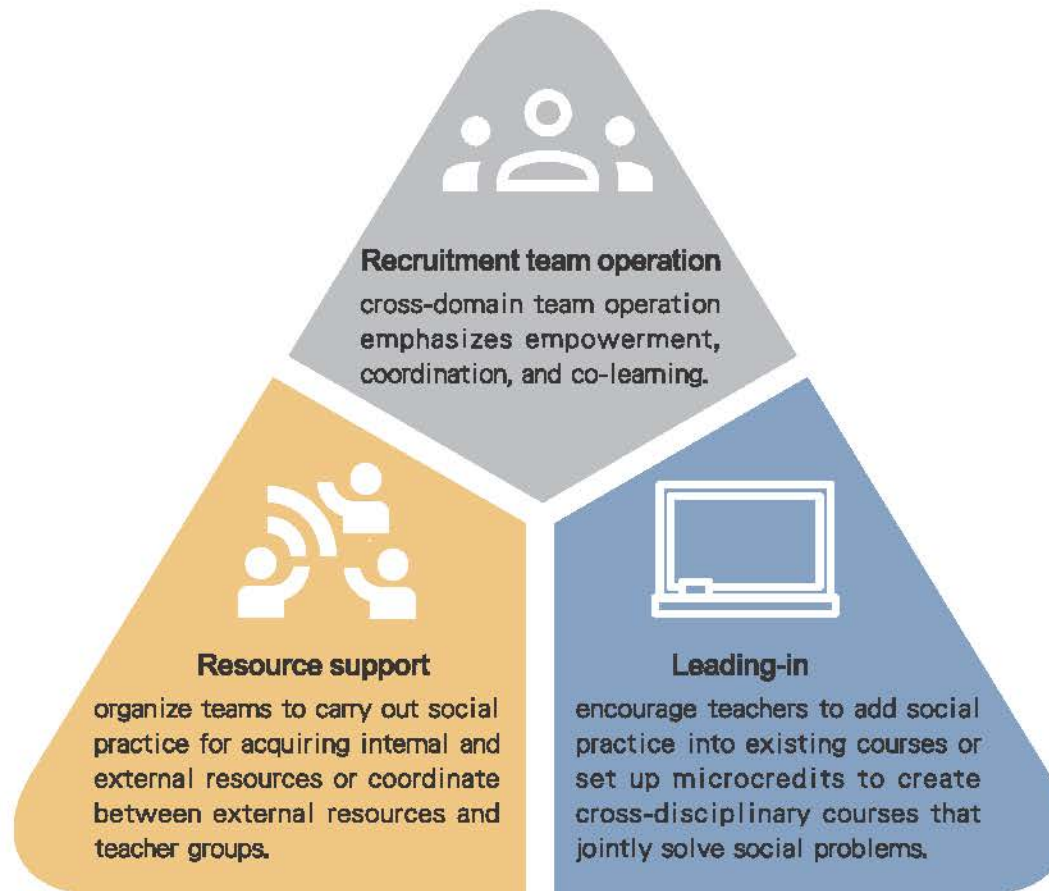
Cooperate with international partners to fulfill USR in Laiji tribes: by coping with Laiji tribe on the Alishan Township of Chiayi County, Zhanghu Community at the Gukeng Township of No. 149 Street (started in 2020), and others, YunTech will continue to focus on issues including the loss of traditional culture, population outflow, aging society, the disappearance of placemaking knowledge with Satayama Initiative as the core. YunTech will always highlight the society, ecology, production, and landscape as the loopholes of overall planning with Living Art Museum at Mishima of Fukushima in Japan, Living Art Movement at Mishima of Fukushima in Japan, SA Company, Professor Miyazaki (majoring in Japan's overall community establishment), Chiba University of Japan, etc. As a result, the Satoyama community can have more strength and confidence to develop cultural industry, and the public can have a deeper understanding of traditional culture, while the ecological practice and sustainable environment can be enhanced with better quality and value of handicrafts. Finally, regional revitalization and traditional cultural resources can be preserved.

The achievements are tribal posters, guide manual, processing film by Yellow Rotang Palm, and four workshops, including 8 cultural and creative commodities by "Woodworking Cultural Commodity Design Workshop", 5 rattan baskets, and 5 bamboo craft ornaments by "2020 International Exchange Workshop - Taiwan-Japan Rattan Weaving Life Technology", several binding and dyeing work by "Zhanghu Community Story and Blue-dyeing Workshop", and 5 service design ideas by "Laiji Field Workshop".

YunTech also keeps connections with Chiba University and Mishima of Fukushima in Japan. By encouraging teachers and students to go abroad for exchanges, YunTech can have a clearer international standard for action practice in regional areas to achieve the SDGs. We also host an online Taiwan-Japan forum with rattan as the theme to explore local problems and needs and the importance of preserving local culture and skills.

6-3 External Social Practice Outside the University

The key points of YunTech in promoting external social practice outside the university lie in "integrating research and innovation energy", "placemaking", and "diversified field practice" in places in Taiwan. It continues to solicit more teachers and students to enter practice bases for USR at Yunlin County to empower education and practice through the following ways:





Invite to enter practice bases for USR (Cases)

Teacher Groups	48
Student Associations	4

Practice bases (Places)

Teacher Groups	84
Student Associations	4



The records of cooperation results are collected and transformed into a board game, "the USR Test of Philosophers", which suggests how our teachers devote themselves to social issues in 2020 and cooperate with local communities and industries to seek solutions. Through the mechanism of this game, this huge challenge is changed into the card board game of "Grace University - The USR Test of Philosophers ". Through the story background, professional role ability, and USR task challenges of Grice University, the players can both have fun and understand the achievements of Yun-Tech 2020 USR. In this way, students can reflect on how YunTech can be more far-sighted and have more social influence.

Local care and education

1. Primary education institution

promote the future social practitioner - connect community and local areas by STEAM education



By digitally empowering the students, this project guides them to enter remote primary schools in communities and thus develop their ability of cross-domain STEAM. Using PBL teaching activities and the development of design for change (DFC), YunTech joins hands with community parents, principals, directors, teachers, community vendors, and volunteer mothers to do social practice to enhance the social influence of the project. Focusing on life issues, students can guide vulnerable peers to learn English through robots, IOT toys and personal tablets with more scientific and technological literacy and creative action in challenging DFC. The activity venue locates at three elementary schools of Yunlin (GouBa, Donghe, and Gukeng), and the activities include one teacher education workshop and three children's education and training courses.



Playing games in groups and gave scores

Local care and education

2. Public-operated Institution

Value-added service and local practice for self-operated characteristic commodity design in correction units



Value-added service and local practice for self-operated characteristic commodity design in correction units target students of basic and advanced prison carpentry class at YunTech, respectively. Through the value-added collaborative teaching and cultural and creative guidance, actual design cases are collected for class sharing, and design and creative concepts are explained via workshops. At the same time, this project inspires students to generate creative ideas, integrate and inject information into corrective art and cultural education. The relevant prototypes and proofing finished products can be displayed to the public through various media and platforms.



Students were sharing their collected design cases in class.

Local care and education

3. Community residents

construct the natural-farming food base and eat with old people



YunTech has assisted Sanguangli in constructing the elderly food farming area to provide food materials with safe sources for the growing aging people who live alone. With the introduction of a natural farming method by experts of the workshop, we have changed the planting and pesticide application habits of Sanguangli residents and maintained a sustainable environment and land. By cooperating with the Community Development Association, Sanguangli has developed into a food farming base that can serve as a food production base for the elderly and caring social space for mutual exchanges.



Sanguangli food farming education workshop

Industrial chain and community cooperation

1. Chicken-raising industrial chain

Shape traceable supply chain and sustainable operation



With the highest number of chickens in Taiwan, the chicken-raising industry has become significant in Yunlin County. To ensure food safety, the source of materials has been the focus of management for each factory. However, due to different levels of information in each factory, it is not easy to connect food sources with the factory. At the same time, as manufacturers bear more management costs that cannot be easily added to values, the promotion of traceable source chains is quite slow. Hence, YunTech integrates Yunlin's local chicken-raising industry by establishing a traceable supply chain management platform to solve the issues of food safety, epidemic prevention, waste treatment, and humane raising and simultaneously train demanding talents for industrial upgrading. Up till now, the construction and testing of traceable supply chain management platform for the chicken-raising industry have been completed, including supply chain entities and online channels, which connects upper stores and lower livestock companies, slaughtering and processing plants, and contract pastures. Two representative supply chains are established with cooperative units respectively: one supply chain formed with "livestock companies" as the core, which connects more than 100 cooperative satellite farms with 1.5 million chickens, and another supply chain formed with the "distributor" as the core to gradually expand from poultry products to 45 kinds of self-owned brand products, including agricultural, fishery, animal husbandry products and food.

YunTech's teachers and students from different majors paid a field visit to Leadray Livestock.



Industrial chain and community cooperation

2. Social enterprises

Empower Zhushan: Retain talents cultivation and industrial connection project



This project aims to make the university development and local development the same to form a good relationship between problems and schemes. The name "Town Empowerment" given by the executive team means sorting out the problems of local DNA and local development through the USR-Hub local practice team to develop a long-term partnership between universities and local areas. Even if local areas may have problems in finding university assistance, the universities will proactively provide practical schemes. Additionally, by doing so, universities can endow local areas with self-care energy through the two-way mechanism and jointly cultivate local talents and transfer success models. In aspects like introducing university resources, the role of teachers and students, and the cognition of local units, continuous cultivation and long-term partnership of USR can be achieved between local areas and universities.

In addition to the four workshops jointly organized by teachers and students and local units of Zhushan, they always showed up without exception in light spot gatherings at Zhuchao school in Zhushan on the last Friday evening of each month hosted by the USR-Hub practice team. Thus, a cooperative partnership was formed between the university and local areas. Through the efforts of our team, we successfully applied to the "Incubation Workshop" plan by the Small and Medium Enterprise Administration of the Ministry of Economic Affairs. In addition to the perfect completion, the "Incubation Workshop" plan for the following next year will be implemented. The local empowerment mechanism and the field operation can obtain more energy from resources expanding from the university to the central government.

Industrial chain and community cooperation



Field visit to Zhushan Empowerment

3. Local tribes

Promote sustainable cultural industry at Chiayi County



While stationing in the "Dianshuitou Cultural and Creative Tribe of Chiayi", YunTech focuses on promoting and exposing the tribe and condensing the internal consensus of the tribe. By hosting counseling courses and lectures about cultural brands, we make our students closer to the tribe and develop potential cultural products, space construction, and visual recognition systems from the perspective of design thinking to apply what they have learned into practice. Tribe residents

Industrial chain and community cooperation

and students interact to stimulate innovative ways of thinking and make the possibility of future development more diversified. It is also easier to promote cultural industries as the team is stationed on the site to condense the internal consensus of the tribe.

Established in 2018, the Dianshuitou Cultural and Creative Tribe of Chiayi is the first novel tribe in Chiayi County. Relying on local youth pre-migration plan "water drift project", tribe residents and students can benefit from mutual communications while the students enter into the field to experience culture and understand cultural inheritance and conservation better. YunTech is also growing with the tribe at the same time and introduces USR social practice program to connect students with the local culture to nourish students who can promote placemaking and innovation. As for internal structure, the stationed team of YunTech links the tribe with local relations using cultural development, activates external resources, introduces a series of brand counseling courses, and holds copywriting management, social media, and micro-brand operation.



Mid-Autumn Festival activity in the tribe

Industrial chain and community cooperation

4. Food-processing industry

New economy by green food farming to bring sustainability in central Taiwan



Following the policy of placemaking, Tai Po Community hopes to integrate two aspects, including local brands and places of interest. This project aims to promote the values of green food farming and integrates skills and resources of Yun-Tech, industry, and local agriculture. By recycling original worthless agricultural products and food processing by-products, this project hopes to add value to Taiwan's local industries and agriculture and solve environmental problems caused by those wastes. At the same time, it can promote the innovation and upgrading of local industries and high-quality agriculture. Heading towards deepening responsible manufacturing, circular economy, environmental protection, and new agricultural development and operation, YunTech is committed to connecting industry with local areas and promoting common prosperity in central Taiwan with the sustainable development of all parties as the core.

Our team contacted a drink factory in Chiayi that can produce about 10 tons of soybean and tea residues every week. Suppose these food and agricultural processing by-products follow the traditional linear economic model. In that case, most of them will become waste and enter the landfill or incinerator, and their treatment process will release a large number of greenhouse gases, resulting in environmental pollution. If its value can be recycled, transformed into energy use or organic fertilizer, and returned to the land to produce food, it will promote the development of new industries, accelerate innovation and drive relevant infrastructure so as to promote the development objectives of national and local circular economy and new agriculture and achieve compatible and sustainable social and industrial development.

Social health promotion

1. Long-term care institutions

Application of indoor positioning system and big-data analysis



Through the designed indoor positioning system for data collection and big-data analysis, based on "indoor positioning system and big-data analysis", this project can not only accurately provide the activity trajectory of residents (the elderly) for caregivers to identify any abnormality of activity levels and physical conditions as soon as possible with better caring, but also improve evaluation scores of institutions. Accordingly, a demonstration base for Intelligent Long-term Care and Health Promotion Center has been established in the building of the Office of Industry-Academia Cooperation, allowing graduate students to participate in experiments to make innovations and improvements and enable the public to experience this innovative medical long-term care facility.



Precision measurement

Social health promotion

2. Medical institutions

Analysis of infection control procedures in Yunlin medical institutions



The purpose of this project hopes to help students understand the collection, sorting, and analysis of infection control data by leading students to large medical institutions near Yunlin County. Under the joint efforts of teachers' data analysis and students' program design, they improve infection control procedures of relevant medical institutions after the analysis and assist hospitals in establishing tools for automatic data collection, data analysis, and visual presentation of analysis results.

Taking local hospitals as the field, teachers and students can have access to the actual operation, problems, and difficulties of infection control in hospitals, and put forward a specific and feasible automation system using different resources to lift the data-processing burden of medical personnel and equip students with self-learning experience in the medical industry.



Automated collection of infection control data

Social health promotion

3. Service base at dementia community

Establish dementia support family-care base



Community support care base implementation plan, promoted by the Executive Yuan, provides local services for the elderly by residents to help the elderly better live in a familiar community and relieve their families. This project gives full play to the community's self-support and mutual care function. Through the on-site interview and spatial mapping of Family of Wisdom at Xikou, we can understand the scale of life behavior, current situation, and living obstacles faced by the elderly after they become weaker. When we grasp core problems and user demands, we suggest improvements to create a suitable living space for the elderly. Professional doctors and school teachers will share their experience in establishing a cooperative base for dementia to innovate space and lead students to talk to people with dementia. In a real environment, students can experience the problems faced by caring for dementia and dwell on the relationship among the elderly's behavior patterns, space, and furniture to better understand patients and caregivers in life.

Although being taught some knowledge on general design about living space and furniture size by YunTech's teachers, students cannot understand what design suits users in real situations even though they know about various design methods. As designers, they should not just stay in front of computer desks to draw drafts; instead, they should visit the site to experience and observe to strengthen their practical ability.

Social health promotion

Thanks to this activity, students can better understand how to talk to people with dementia with a calm mind. After experiencing the activity space of those people, students will figure out the characteristics that should be paid attention to while selecting the furniture, such as sofa hardness, table height, bathroom size, etc. Through the case-sharing and leadership of professional doctors and school teachers, we can achieve the purpose of this project.



Students and the elderly with dementia work together to complete personal cards.

Social health promotion

4. Elderly in communities

grandparents and grandchildren do sports hand in hand



In the aging society, only the elderly and children live in communities. This project aims to absorb the elderly in communities as volunteers to prolong the activity period through leisure activities. By parent-child learning, the elderly can enrich their leisure time and maintain their health while helping children temporarily stay away from 3C products for better physical and mental development. This program will conduct two lectures to train community sports guidance volunteers with sports skills, teaching skills, and community building knowledge. When the elderly can help each other in the community, community activities last long.

Moreover, the elderly will have fun learning with children to grow together. From the residence to the activity place, community residents, the elderly or the young, can interact. Doing sports is not simply a way to exercise but also a way to find a new direction and goal in life for the elderly to achieve successful aging.



Lectures on the establishment of the elderly community

Sustainable culture promotion

1. Foreign organizations & aboriginal tribes

communication links between international and local communities



To stop the separation of university courses from local issues, through the cooperation mechanism between university talents and local community institutions, YunTech integrates the environmental changes and social problems that both sides face and takes community fields as learning sites to cultivate students with professional problem-solving abilities as modern citizens. Therefore, YunTech has formulated action plans to work together with residents in response to many local social problems. Local or government organizations are also combined to enhance the energy to solve problems during the process. Therefore, universities, communities, and local organizations face challenges and continue to learn from international benchmark cases in practice.

The domestic fields, which focus on Laiji tribe, now also cover Zhanghu Community at the Gukeng Township of No. 149 Street. YunTech has connections with Chiba University, Mishima of Fukushima in Japan, etc. By encouraging teachers and students to meet international standards, a clearer international reference can be used as an active practice for regional development to achieve SDGs.

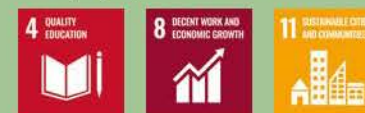


Video meeting with Mr. Otani during Taiwan-Japan seminars

Sustainable culture promotion

2. Software company

Design project of cultural travel experience at Hemaï Township, Changhua County



To promote the sustainable urban development of tribes and alleys in Changhua and attract more people to participate in and understand Changhua culture, this project designs a real-world experience game package with mobile chatting robots and use interesting real-world puzzles to arouse people's interest, making people deeply understand the culture and characteristics of Changhua. It is implemented in the villages and towns of Changhua County, as the population outflow becomes a serious problem with weakening local consensus and fewer people understand the local characteristics and culture of Changhua. Therefore, this project hopes to integrate chatting robots into the local historical buildings and natural landscape to digitize the cultural characteristics of villages and towns' cultural characteristics and create a more complete and innovative tourism model through real-time responses of robots. With a more convenient and innovative tour experience, users can better understand the characteristics of villages and towns without worrying about the guide, and the while society can notice the local culture more to attract more visitors. Residents can see the prosperity of the past again, and more young people can return to hometowns to seek employment and settle down with more consensus to bring new vitality.



Visitors experience activities with chatting robots

Sustainable culture promotion

3. Cultural exhibition hall

Introduce digital technologies into traditional techniques of Puppet Opera



The digital age has changed how people convey their information. With digital technologies, various applications take on new looks, and the display and performance of traditional puppet operas explore new cultural sustainability issues. Puppet Opera takes "My home" as the implementation field for curriculum teaching to achieve placemaking. Curriculum teaching, combined with field visits and professional speech interaction, can encourage participating students to introduce what they have learned into local puppet opera culture. After the creation process, YunTech produces interactive devices to bring visitors closer to local culture.



The interactive camera experience in Huwei Puppet Theater

Sustainable culture promotion

4. Aboriginal tribes

Placemaking of Qingliu tribe and cultural commodity development and marketing plan



After combining the tribe culture into teaching, YunTech's teachers will guide students to do field practice and discover problems that concern the tribe. The project can shorten the gap between theory and practice and jointly make designs with the tribe with medium and long-term goals. Suppose students can give full play to their strengths and contribute to improving the placemaking and culture of tribes. In that case, they will be competent and confident in any field in the future to make use of their creativity, expertise, and knowledge. The integration of curriculum and tribe culture can enhance students' practical abilities and develop a partnership with Pushu USG Association at Nantou County to design and manage community jointly with the spirit of placemaking. In total, 1 one lecture and five workshops were organized to develop the specific fashion of the tribe and drive the placemaking and sustainable development.



Discuss VIS image design with tribal people

Open Services of YunTech Library



The total collection is about
1.40 million copies/kinds

With diversified book resources available to communities to fulfill university social responsibility, YunTech Library has been integrating USR into the service concept of sharing resources with communities since its establishment. Following the Libraries Act (Republic of China) and key points of Guiding Rules and Lending Regulations of YunTech Library, as well as the government's advocacy of reading and lifelong learning, we welcomed people outside the university to visit the library by offering the Library's Friend Plan and coped with other colleges and universities. People subscribed to the Library's Friend Plan can register for the reader's card and library card to borrow books out of the library and read in the library. Moreover, self-made E-books and digital information technology enable the public to browse paradigms and commemorative albums of the university online.



"Love Reading" bookcrossing activity

Using regular theme book exhibitions on SDGs of multiple resources in libraries, to encourage teachers, students, and community residents to borrow books and convey the new knowledge of humanistic and social care and sustainable development following USR, YunTech hosted relevant theme book exhibitions in 2020, such as "Reading Age" in January, "Health and Epidemic Prevention E-Rise (E-Book)" in February, "Reading for Health" in March, "Intellectual Property Rights and Research Power" in June, and "E-Book Digital Resources Cloud-Reading Exhibition" in July to involve teachers and students using online long-distance autonomous learning during Covid-19. With commitments to environmental protection and carbon reduction for SDGs, a book-exchanging area named "Love Reading" is set at the entrance of YunTech Library to provide free books for reading and encourages the donation of good books to be exchanged for sharing. Due to the circulation of books through repeated reading, YunTech improves book resources' reuse rate and reduces the consumption for making papers. Furthermore, the "second-hand good book exchange" activity and Library Week "Take me home - free second-hand good books" are held on Earth Day and World Book Day every April. The cumulative benefits of long-term practical operation can promote resource conservation, environmental protection, carbon reduction and sustainable education with improved reading abilities of community residents.



Exhibition area of book topics

The library hall is equipped with an interactive touch screen display, which shows that: Digital University History Museum - open to people from outside the school for browsing. Happy Selfie Area - open to people from outside to take photos of the school scenery without logging in using digital technologies. Digital Reading Area - open digital learning resources and selection of real-time e-magazines for browsing. With the joint-library resource-sharing platform of Sustainable Development and Social Practice Research Center under the Higher Education SPROUT Project, the program provides partner schools with cross-university library resources, over 6 million books from partner central technical colleges can be equipped with the borrowing and returning service.

Since YunTech is the top university at Yunlin County, except for supporting the teaching and research of teachers and students as main tasks and functions, the library serves the needs of people's lifelong learning and constructs a friendly and high-quality learning environment under policies of national educational development and university research development. Adhering to the mission to develop with the community by integration embraces the service concept of sharing knowledge resources and space facilities with the public. Diversified promotional services have been carried out for a long time, including preferential access to reading and borrowing books for off-campus people and community residents, making volunteer work available to off-campus people, enabling community residents, educational institutions, industry-academia collaboration organizations to use books, computers, exhibition halls, guide services, and to participate in seminars by application. Devoted to sharing and exchanging educational resources, the library hopes to achieve "make higher education more public and fulfill the university social responsibility" .



Happy Selfie Area - for the public



Off-campus people experienced the guiding service

The percentage of off-campus visitors to total visitors during 2018 to 2020

Year	Number of visitors outside the school (including visiting groups)	Number of visitors within the school	Total number of visitors	The percentage of off-campus visitors to total visitors
2018	55,049	196,053	251,102	21.92%
2019	45,476	186,350	231,826	19.62%
2020	22,228	140,496	162,724	13.66%

*Due to the regulations of Covid-19 Prevention Control Center, off-campus visitors are prohibited from entering the library from February 10, 2020, to July 15, 2020, so the number of off-campus visitors is reduced.

Performance Activity: Focusing on Friendly Community and Giving Back

The main objectives of the Arts Center are to develop "science and technology" and "humanities and art" education with an artistic campus atmosphere, cooperate with general courses to promote art education and create more artistic space for teachers, students, and community residents. All large-scale exhibition activities are open to the public; we have also helped students organize associations and special performance activities with good effects.

Summary of various arts and cultural activities during 2018 to 2020

Year	Number of performance	Piece of collection	Number of art guides	Number of concerts	Number of artist in residence
2018	22	7	3,437	2	2
2019	23	12	3,258	2	1
2020	25	15	3,012	2	1

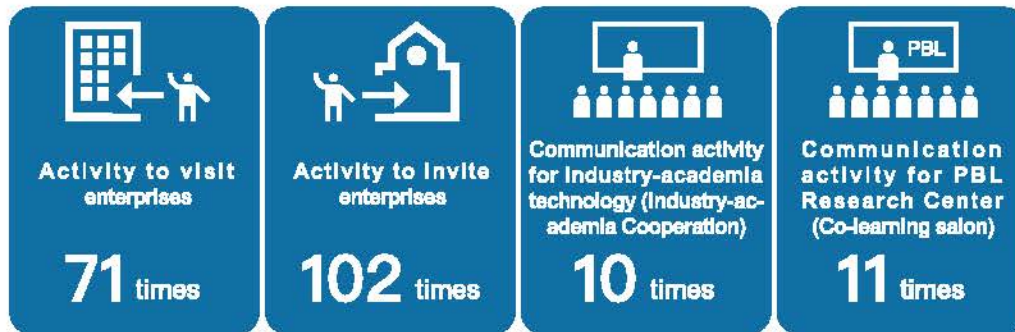
Since 2020, the Auditorium of YunTech has been renovated internally and externally to provide 1401 seats and new equipment with visions to build a national performing arts hall, which is conducive to promoting local arts and cultural activities and improving the relationship among community residents.



6-4 Industrial Cooperation



Results of handling activities:



30 industry-academia cases have been completed with a value of nearly NT\$**18.20** million at an average collaboration rate of **15.4%**.



The Incubation Center for Academia-Industry Collaboration and Intellectual Property established Yunlin Placemaking Local Service Center and Central Incubation Alliance to promote SME counseling and organize-related activities as follows:

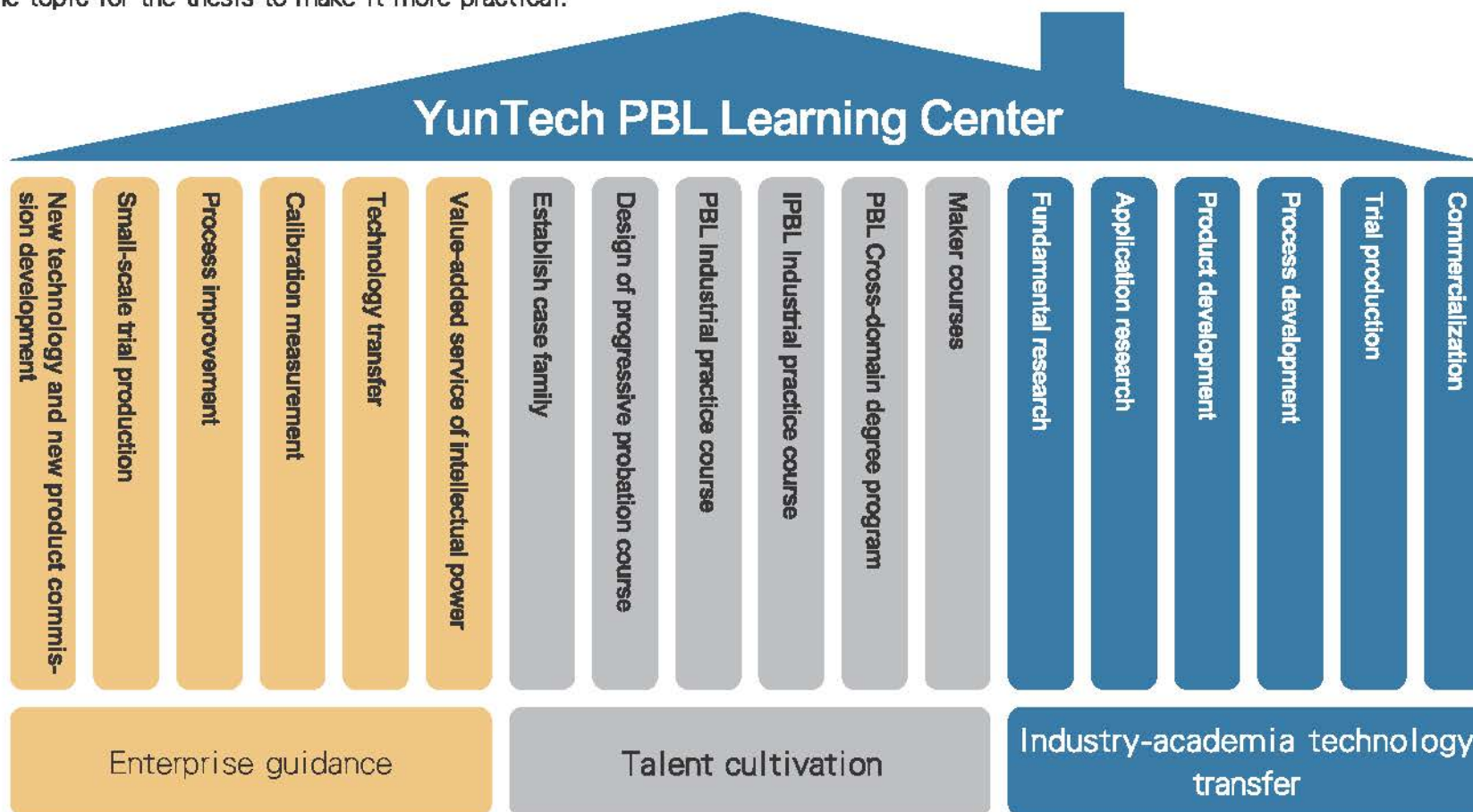


Office of Industry-Academia Cooperation

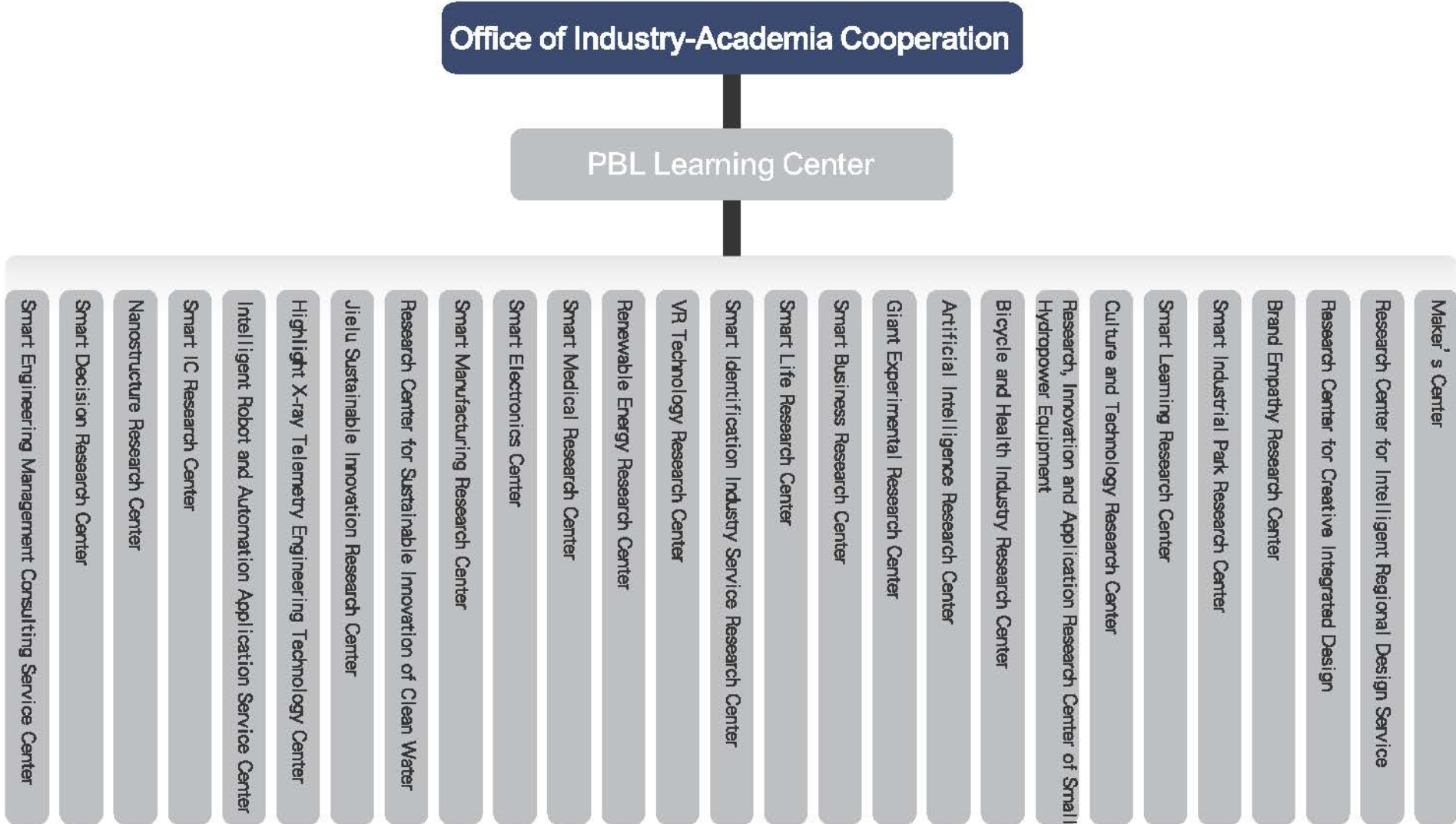
To link with academia-industry collaboration platforms of enterprises, in addition to integrating core technology and professional workforce, YunTech still needs to do the following tasks: Deepen forward-looking and cross-domain technologies for the national industrial development, promote the guiding mechanism for B2B enterprises, upgrade academia-industry cooperation mode from the previous point-to-point mode to a one-stop systematic solution, and improve the academia-industry cooperation chain. In addition to academia-industry collaboration, this Office also undertakes to assist regional and local industrial upgrading. Its all-round enterprise guidance integrates the highlights of the industry-academia cooperation of YunTech, including the fields of intelligent identification, artificial intelligence, intelligent manufacturing, and production line upgrading, automatic driving, intelligent medical treatment, 5G, information management, environmental safety, production and manufacturing optimization, marketing survey and sales, human resources, brand positioning and design, smart finance, strategy management, circular economy, etc. In the new year, we will plan industrial forums with different themes, conduct horizontal integration across the school, and organize industrial consulting teams to improve the R&D capacity and improve the collaboration efficiency of industry-academia cooperation.



To satisfy urgent demands of enterprises for talents and bring industry-academia cooperative enterprises the benefit of selecting talent with priority, we should actively promote the concept of industry-academia-employment, and discuss with enterprises to establish exclusive industrial courses tailoring to enterprises. Based on existing courses or curriculum flow charts and the demands for technologies and abilities, enterprises can provide references and suggestions for compulsory and elective courses of YunTech, and confirm the subjects and academic scores of their exclusive industry programs. The directors and professionals of enterprises can be recommended as teachers for exclusive industry programs to assist in teaching students, awarded related certificates after completing and passing related subjects. Additionally, YunTech encourages professors to guide master students to take real issues of enterprises as the topic for the thesis to make it more practical.



Organizational Framework of PBL Learning Center



The Office of Industry-Academia Cooperation continues its efforts in industrial-academia collaboration activities: it invited enterprises to the university for cooperation, arranged research teams to diagnose enterprises, and established the Billboard of Enterprises to provide solutions. The total number of collaboration activities in 2020 is over 150, matching enterprise demands with PBL professional technologies. Successful high-quality enterprises were invited to put forward demands in R&D or innovative operation, and then appropriate PBL research centers were invited to share professional technologies and existing achievements for possible cooperation. Also, we are committed to coping with listed companies and large enterprises. Junhao Precision, Nam Liong Group, Sandi Group, Elementech International, Yongxin Pharmaceutical, Gigabyte Technology, Asia Airlines, Chunghwa Telecom, Mobiletron Electronics, Teco Electric & Machinery, etc. s are all best enterprise partners of YunTech with close cooperation. We have also worked closely with the College of Management to provide high-quality and value-added service for the president class majoring in advanced management with a master's degree, enabling business owners from Yunlin and other central and southern regions to study at YunTech. Not only can they learn rich knowledge, but also they can solve practical issues of enterprises by academia-industry collaboration. YunTech is a provider of diversified services. The Office works with Synergies Intelligent Systems Incorporation (Taiwan Branch) whose headquarter lies in Boston to offer more extensive and high-quality service for enterprises. They discuss how to cooperatively introduce the AI system developed by Synergies into enterprises and assist their digital transformation as a great initiative.

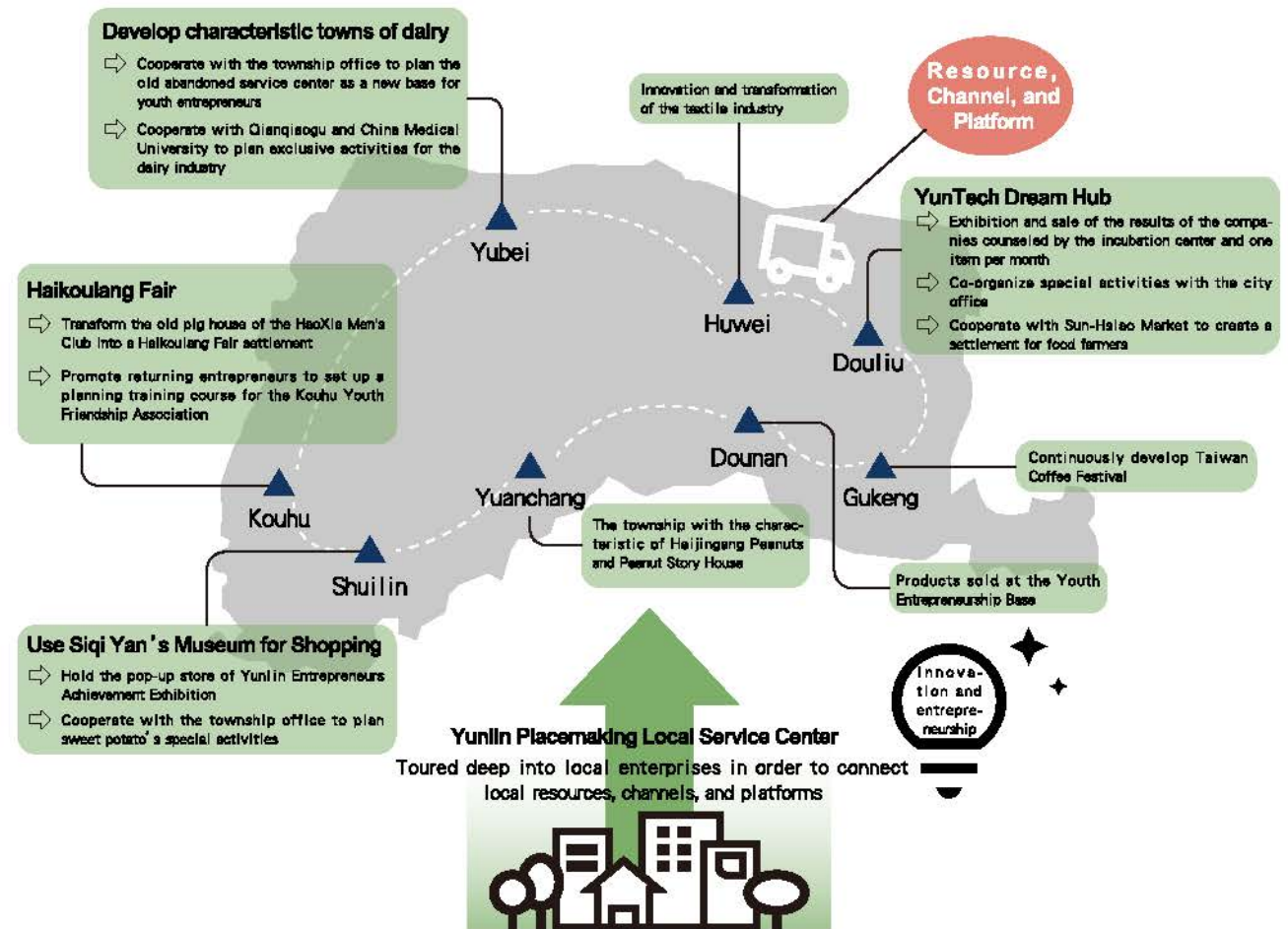


Focusing on people's livelihood, chemical industry, electronic information, creative cultural industry, and innovative technology, the Incubation Center for Academia-Industry Collaboration and Intellectual Property integrated and applied professional characteristics and expertise of five colleges at Yun-Tech provide customized guidance and R&D support based on enterprise demands from different dimensions, which are, "entrepreneurship guidance, research and development, marketing exposure, cross-domain cooperation", etc. Recently, we have been more proactive in cooperating with various units. More specifically, we coordinated large enterprises to help small enterprises or work with more than 30 partner units including public sectors, private education, and venture capital resources to expand the scope and strength of guidance, create a sharing mechanism with effects of "1 + 1 > 2" (something greater than the whole), vigorously help young people return home to start businesses, and upgrade industrial transmission. What's more, the Center was awarded as the "excellent innovation institution in local placemaking" unit by Small and Medium Administration of the Ministry of Economic Affairs in 2020.



Yunlin Placemaking Local Service Center

To implement the principle of “placemaking and cultivation of Yunlin”, the Yunlin Placemaking Local Service Center was set up. With the concept of “Incubation at YunTech”, the Center takes rural areas as planning places. Education specialists regularly visit each branch office to understand enterprises' demands more deeply and discuss placemaking with county-level government and township public sectors. Additionally, based on the traditional culture, industrial characteristics, industrial development of the township, the Center can introduce the academic community to offer guidance. In addition, to further activate the development of local industries, YunTech assists young people to return home, start businesses, and transform traditional industries. Based on the title of “YunTech Incubation Office”, YunTech tours all villages and towns from time to time to collaborate appropriate resources for placemaking and development. In February 2021, an entity sub-branch office of Dabeishi Service Center Building was established in the industrial zone of YunTech with stationed personnel to better understand the real-time needs of enterprise transformation and upgrading, talent cultivation, and environmental safety, assisting small and medium-sized enterprises in entering the industrial zone to create the prospects of industry-academia coexistence and common prosperity.



Central Incubation Alliance

Taking YunTech Dream Hub as the innovative and entrepreneurship base, combined with public sectors, private incubation, resources of innovation and investment, YunTech takes advantage of five colleges to focus on key areas. Except for establishing the Yunlin Deep Economy Demonstration District, it also serves as the guiding unit of the Central Incubation Alliance to integrate regional innovation and incubation resources in central universities since 2020. With more than 20 partners, YunTech leads schools in the central region to carry out regional innovation and education resource integration with cross-university cooperation and exchange, hoping to achieve co-learning with shared benefits and prosperity, including the first Entrepreneurship Counseling Resume - cross-border joint counseling for enterprises, regular information exchange by managers, joint activities, etc. With enhanced assistance both in breadth and depth, YunTech promotes the placemaking of local industries and investment collaboration to offer more complete and diversified services.

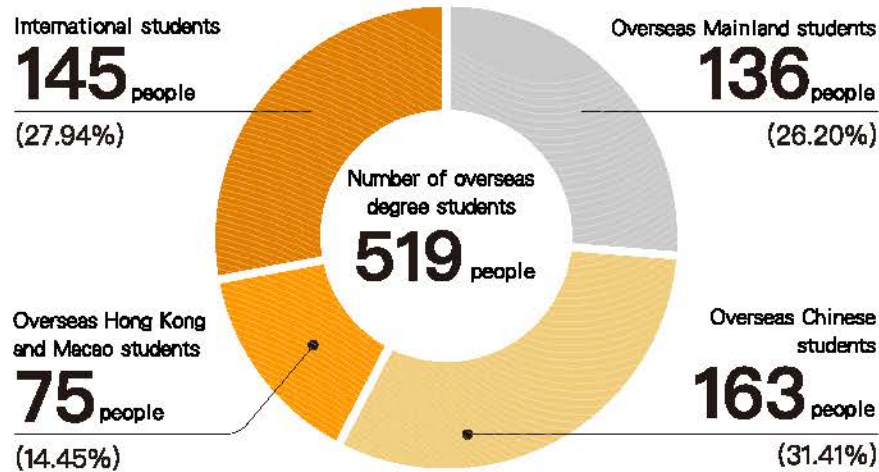


Industrial Communication Activities

With a history of 23 years already, YunTech Incubation Center has undertaken the “Competitiveness Promotion Program for Industrial Park” entrusted by the Industrial Development Bureau of the Ministry of Economic Affairs since 2014. The Center has closely interacted with local enterprises and publicized its business and university strength through paying visits to factories, hosting technical lectures, and participating in exchange activities of industrial parks and local enterprise associations. In addition, it organized communication activities at levels of industry, government and university and achievement exhibitions so as to create opportunities for local small and medium-sized enterprises at industrial parks to better understand the incubation and promote cross-domain cooperation.



6-5 International Communication



In response to the internationalization of higher education and vigorous development of international academic exchanges, the Office of International Affairs plans and implements the internationalization of the campus. As a result, we can promote academic research and learning effect of teachers and students with higher academic status and better reputation, and expand students' horizons and career planning to lay a solid foundation of Taiwan's soft power.

To promote international exchanges, much effort has been made by YunTech. On the one hand, teachers and students should actively participate in international exchange activities to enhance students' international mobility with international vision and outlook. By doing so, students can understand different cultures more deeply with more tolerance. Not only can those students learn new knowledge, but also they can absorb foreign cultures and establish international communication channels. On the other hand, international students and scholars are

well received by YunTech as it increases the number and amount of scholarships for international students to attract more international students and stimulate more cross-cultural exchanges and research achievements.



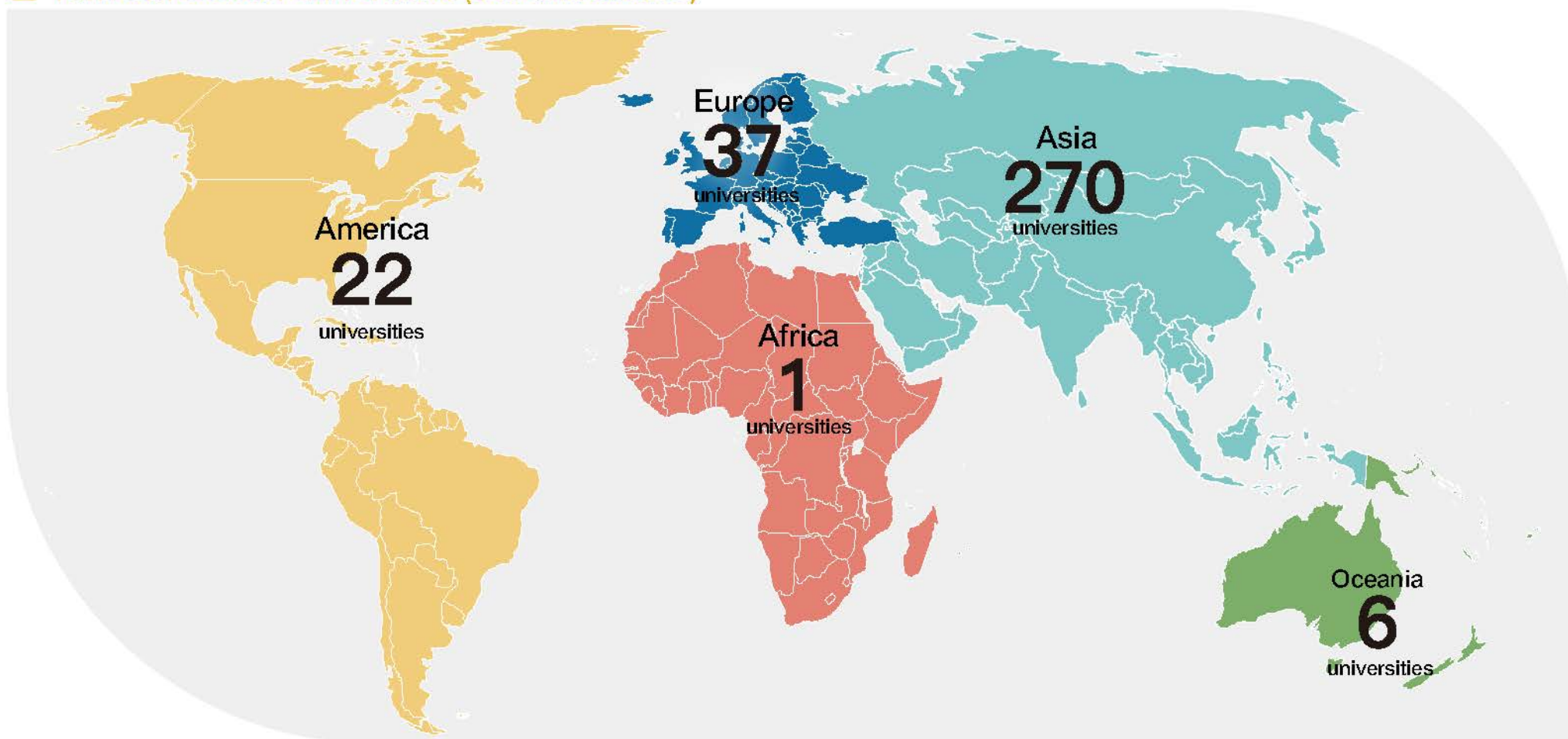
Academic year	Number of enrollment	Number of overseas	Percentage of overseas students
106	9,732	457	4.70%
107	9,716	521	5.36%
108	9,808	519	5.29%

The number and percentage of overseas students during 106 to 108 academic years

Sign Agreements on International Academic Communications

By 2020, YunTech has connected with 336 sister universities in 35 countries worldwide. In addition, our school participated in the TAItech and formed an international alliance with the Germany HAWtech, providing more opportunities for teachers and students to visit Germany for exchanges in the future.

👑 YunTech's sister universities (336 universities)



Teacher's Participation in International Communication and Foreign Visitors

Departments and institutes are inspired to hold international lectures with prominent foreign schools to attract foreign experts, scholars, and high-tech talents to YunTech to pay short-term visits, give seminars and special lectures. Hence, the research culture of the campus can be enhanced at a micro level, and cross-country academic cooperation between departments and foreign industries or related research institutions can be promoted. In addition, based on operating special research plans, teachers are encouraged to apply for subsidies from the Ministry of Science and Technology or other institutions to carry out international industry-academia cooperation and exchanges and professional talent training programs.

Taiwan-Vietnam Environmental Protection Overseas Science and Technology Innovation Center was established for the first time by YunTech with the subsidy from the Ministry of Science and Technology to combine resources from environmental science and technology and academic-industry for more international industry-academia cooperation. In the same year, YunTech also established the "Scientific Research Industrialization Platform (International Industry-Academia Alliance Gloria)" with nine universities in North Central Taiwan with the assistance of industry-academia cooperation at home and abroad. With continuous efforts in soliciting overseas teachers and talents, YunTech can communicate more with foreign guests to make future cooperation plans. Moreover, the visiting and exchange of teachers from other universities can improve the international reputation of YunTech and stimulate education and research innovation.



Center Unveiling Ceremony and Environmental Protection Exchange Symposium

Student's Participation in International Communication

From an international perspective, our university students can often attend international academic seminars and exchange activities or study abroad at their own expense or with university subsidies. The number of students going abroad for study and exchange has increased yearly. From 106 to 108 academic years, 242 people attended international conferences, 217 times of short-term group studies were achieved, and 247 people went abroad for exchange.

In 2020, 10 students participated in internships at overseas enterprises, studying abroad, and international volunteer work, 15 students joined in international academic seminars and published papers, and 25 students went to the Mainland for short-term study camps in winter and summer. Due to the effects of Covid-19, the Ministry of Education has notified to reduce or postpone study and exchange activities of teachers and students, resulting in the reduction of students going abroad while video meetings or other alternatives are still supported. YunTech will continue to cope with foreign universities for the studying-abroad program and students' exchange agreement while still encouraging students from both sides to continuously communicate and take courses.



6-6 Continuing Education

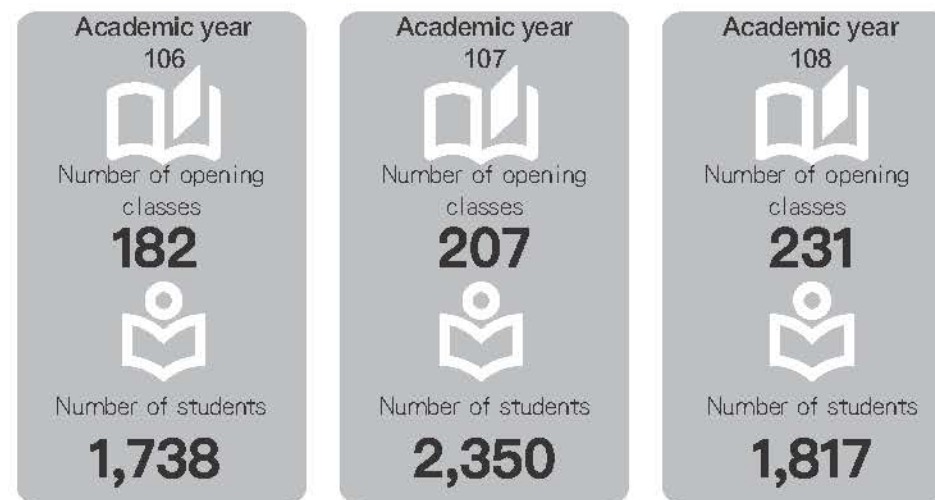


Undertake training



On the one hand, the Center of Continuing Education cultivates senior technical talents in line with the requirements of the national economy and local construction. On the other hand, it proactively integrates relevant soft and hard equipment and resources to satisfy regional needs and organizes continuing education and training classes to serve and reward local communities.

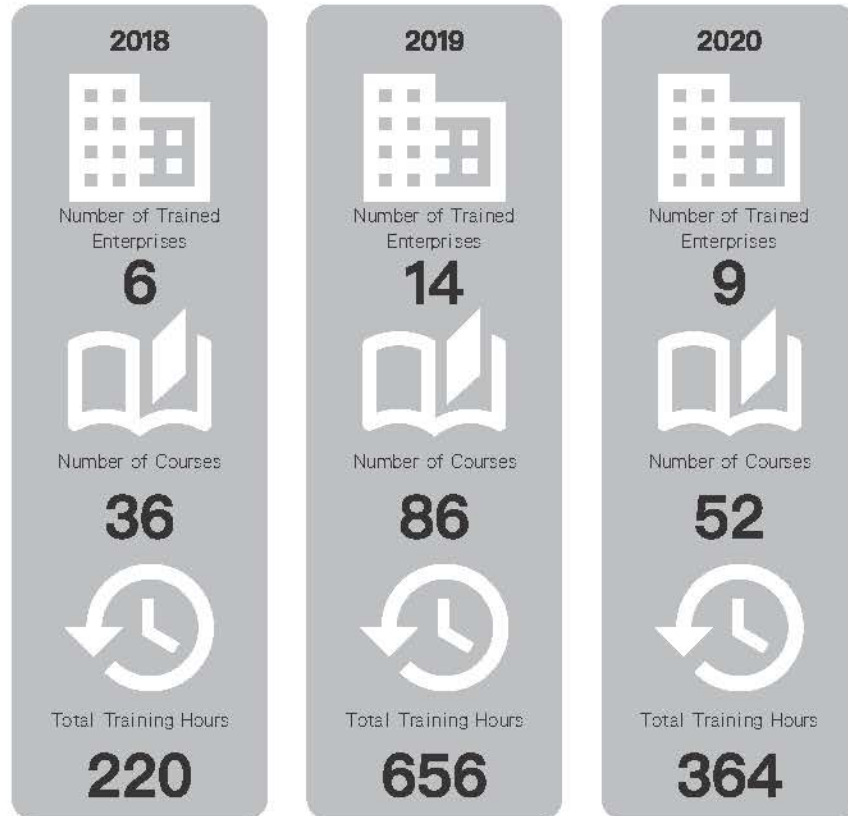
The Center has acted actively as an excellent teacher and equipment marketer to master YunTech's advantages in mechanical and electrical engineering, designing, and management in recent years. By carrying out key technology reengineering activities with local industries, it endeavors to fill the industrial workforce gap and enhance the operating capacity of neighboring enterprises to achieve a win-win academia-industry situation. The Center proactively undertakes various training courses or cooperates with enterprises to establish industrial colleges.



Number of opening classes and students at Continuing Education Center during 106 to 108 academic years

Undertake Training and Industrial Colleges

We participated in a small enterprise workforce improvement plan by Yunjia Branch of the Workforce Development Agency to carry out counseling plans for enterprises with less than 50 employees in Yunlin. In cooperation with China Productivity Center and Yunjianan Branch of Workforce Development Agency, we have already handled training programs of nine vendors in 2020, and will continue to be accepted more in the future.

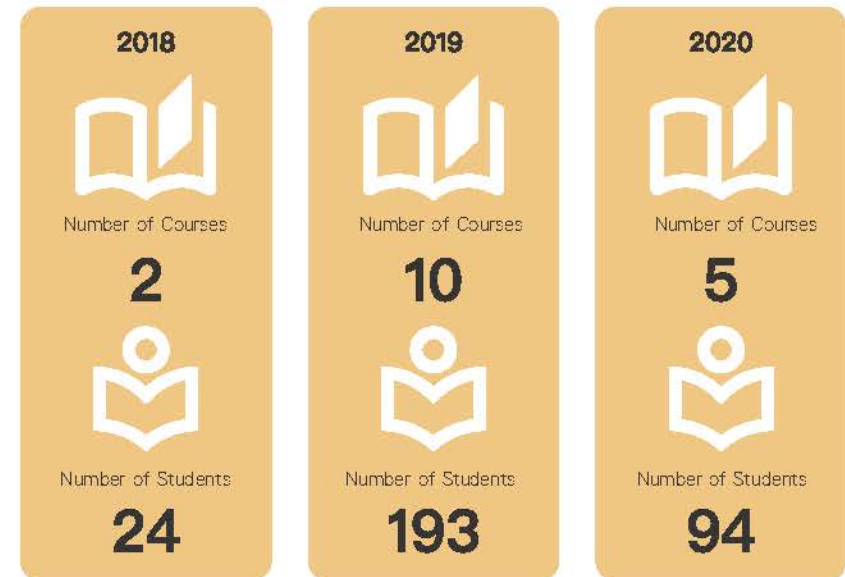


Number of trained enterprises and courses and total training hours during 2018 to 2020

Undertake Vocational Training Program of Yunjianan Branch of Workforce Development Agency

In 2018, it undertook to carry out “2018 Annual Industrial Talent Investment Program - Policy Courses” of Yunjianan Branch of Workforce Development Agency, and cooperated with the New Southward Policy to launch two courses of “Preliminary Vietnamese Conversation” and “Intermediate Vietnamese Conversation”, with total funding of NT\$121,680.

In 2019 and 2020, we continued our efforts in undertaking the “Industrial Talent Investment Program” of the Yunjianan Branch of Workforce Development Agency and provided relevant courses guided by the policies. We also applied for the Industrial Talent Investment Program in the second half of 2020 with an A-level Training Reward.



Number of vocational training classes and students entrusted by Yunjianan Branch of Workforce Development Agency during 2018 to 2020





07



Comparison with the Contents of GRI Standards Project

General Standards

GRI Standards	Number of exposed items	Exposed items	Corresponding chapter	Page	Notes		
General Standards	GRI 102 :2016	General Disclosure	102-1	Name of organization	History of YunTech and Organizational Framework	16	
			102-2	Activities, brands, products, and services	History of YunTech and Organizational Framework	16-18	
			102-3	Location of headquarter	History of YunTech and Organizational Framework	16	
			102-4	Location of operating activities	History of YunTech and Organizational Framework	16	
			102-5	Ownership and legal form	History of YunTech and Organizational Framework	15-18	
			102-6	Market providing service	History of YunTech and Organizational Framework	15-18	
			102-7	Organization scale	History of YunTech and Organizational Framework /Financial Performance	16-18/64	
			102-8	Information about employees and other workers	Faculty Career Development and Training	52-56	
			102-9	Supply chain	Sustainable Supply Chain	125	
			102-10	Significant changes in the organization and its supply chain	History of YunTech and Organizational Framework	16	No significant changes in organization and its supply chain
			102-11	Early warning principle or policy	Risk Analysis and Internal Control System	33-37	
			102-12	External initiatives	Governance Procedures	32	
			102-13	Membership of associations	Governance Procedures	32	
			102-14	Statement of decision-maker	Message from the President	5-7	
			102-15	Key shocks, risks and opportunities	Risk Analysis and Internal Control System	33-37	

General Standards

GRI Standards	Number of exposed items	Exposed items	Corresponding chapter	Page	Notes
General Standards GRI 102 :2016 General Disclosure	102-16	Values, principles, standards, and codes of conduct	Academic and Governance Ethics	45-47	
	102-18	Governance structure	Governance Procedures / Sustainable Core Concept, Vision and Strategy	29-32/21-23	
	102-20	The Management team is responsible for economic, environmental, and social themes	Sustainable Core Concept, Vision and Strategy	23	
	102-22	Composition of the highest governing unit and its committee	Governance Procedures	29	
	102-23	Chairman of the highest governing unit	History of YunTech and Organizational Framework / Governance Procedures	16/29	
	102-26	The role of the governing unit in establishing purposes, values, and strategies	Governance Procedures	29-32	
	102-32	The role of the highest governing unit in SDGs reports	Sustainable Core Concept, Vision and Strategy	21-23	
	102-40	Stakeholder groups	Communication with Stakeholders	38	
	102-41	Group agreement			No labor union
	102-42	Identification and selection of stakeholders	Communication with Stakeholders	38	
	102-43	Policy for communicating with stakeholders	Communication with Stakeholders	38-39	
	102-44	Proposed key themes and concerns	Communication with Stakeholders	40-42	
	102-45	Entities included in consolidated financial statements			No consolidated sheets
	102-46	Define the contents and subject boundary of the report	Communication with Stakeholders	42-44	
102-47	List of major themes	Communication with Stakeholders	42		

General Standards

GRI Standards		Number of exposed items	Exposed items	Corresponding chapter	Page	Notes	
General Standards	GRI 102 :2016	General Disclosure	102-48	Information reprogramming	About the Report	3	
			102-49	Report changes	Communication with Stakeholders	40-41	
			102-50	Report period	About the Report	3	
			102-51	Date of the last report	About the Report	3	
			102-52	Report cycle	About the Report	3	
			102-53	Contact person who can answer questions related to the report	About the Report	3	
			102-54	Announcements reported in accordance with GRI guidelines	About the Report	3	
			102-55	GRI content index	Comparison with the Contents of GRI Standards Project	174-178	
			102-56	External assurance / Assurance	About the Report / Appendix	3/181	
	General Standards	GRI 103 :2016	Management Policy	103-1	Explanation of major themes and their boundaries	Communication with Stakeholders / Major Themes and Factors of Each Chapter	40-44 / 45、45、51、62、71-72、100-101、130-131
103-2				Management policy and its elements	Major Themes and Factors of Each Chapter	45、48、51、62、71-72、100-101、130-131	
103-3				Evaluation of management policy	Major Themes and Factors of Each Chapter	45、48、51、62、71-72、100-101、130-131	

Economic Standards

GRI Standards		Number of exposed items	Exposed Items	Corresponding chapter	Page	Notes	
Economic Standards	GRI 201 :2016	Economic performance	201-1	Direct economic value generated and distributed by the organization	Financial Performance	63-65	
			201-4	Financial subsidies from the government	Financial Performance	63	
	GRI 202 :2016	Market status	202-1	The ratio of standard salary to the local minimum salary for grass-roots personnel of different genders	Faculty Career Development and Training	58-59	
	GRI 203 :2016	Indirect economic	203-1	Investment in infrastructure and development and impact of supporting services	External Social Practice Outside the University	144-154	
GRI 205 :2016	No corruption	205-3	Confirmed corruption incidents and actions taken	Academic and Governance Ethics	46	No corruption cases	

Environmental Standards

GRI Standards		Number of exposed items	Exposed items	Corresponding chapter	Page	Notes	
Environmental Standards	GRI 302 :2016	Energy	302-1	Energy consumption within the organization	Green Campus	116	
	GRI 306 :2016	Sewage and waste	306-1	Discharge volume allocated by water quality and destination	Green Campus	117	
			306-2	Waste classified by category and disposal method	Green Campus	118	
GRI 307 :2016	Compliance with regulations on environmental protection	307-1	Violation of environmental regulations	Green Campus	111	No violation of environmental regulations	

Social Standards

GRI Standards		Number of exposed items	Exposed items	Corresponding chapter	Page	Notes	
Social Standards	GRI 401:2016	Labor employment relationship	401-1	New and former employees	Faculty Career Development and Training	55-56	
	GRI 405:2016	Employee diversity and equal opportunities	405-1	Diversity of governance units and employees	Governance Procedures / Faculty Career Development and Training	29/ 52-54	
	GRI 406:2016	No discrimination	406-1	Discrimination incidents and improvement actions taken by the organization	Faculty Career Development and Training	58-59	
	GRI 418:2016	Customer privacy	418-1	Complaints of confirmed infringement of customer privacy or loss of customer data	Information Security	49-50	

Disclosures of other themes

Self-determined theme	Number of exposed items	Exposed items	Corresponding chapter	Page	Notes
Education environment and opportunities	-	-	Student Employment Outcomes	75-76	
Academic and Industry-academia collaboration performance	-	-	Academic Research Results / Industry-academia Cooperation Results	86-90	
Education quality and effectiveness	-	-	Education Performance	71-97	
Covid-19 and its response	-	-	Campus Safety and Health	121-124	

Correspondence to SASB Standards Table 1

Themes	Accounting indicators	Accounting indicators code	Attribute	Corresponding chapter	Page	Notes
Information security	Identify and address information security risks	SV-ED-230a.1	Qualitative	Information security	48-50	
	Policy and practice about collecting, processing, utilizing, and preserving students' personal information	SV-ED-230a.2	Qualitative	Information security	48-50	
	(1) Number of data breaches (2) Percentage of identifiable personal information involved (3) Number of students affected	SV-ED-230a.3	Quantitative	Information security	49-50	
Education quality and employment	Graduate rate	SV-ED-260a.1	Quantitative	Students Employment Outcomes	75	
	Graduate rate of new students	SV-ED-260a.2	Quantitative	Students Employment Outcomes	75	
	Employment rate	SV-ED-260a.3	Quantitative	Students Employment Outcomes	75	
	(1)The ratio of debt to surplus (2) Debt-to-income Ratio	SV-ED-260a.4	Quantitative	-	-	This will be revealed in the 2021 Report.
	Repayment ratio of student loan	SV-ED-260a.5	Quantitative	-	-	This will be revealed in the 2021 Report.
Marketing and hiring	Before charging any fees, the policy of key performance should be explained to incoming students	SV-ED-270a.1	Qualitative	-	-	This will be revealed in the 2021 Report.
	Financial losses caused by legal proceedings for violating advertising, marketing, and compulsory disclosure	SV-ED-270a.2	Quantitative	-	-	This will be revealed in the 2021 Report.
	(1) Education expenses and fees (2) Marketing and hiring fees	SV-ED-270a.3	Quantitative	Financial Performance	64	


Correspondence to SASB Standards Table 1

Themes	Accounting indicators	Accounting indicators	Attribute	Corresponding chapter	Page	Notes
Marketing and hiring	Source of income: (1) Title IV fund (2) GI Bill fund (3) Student loan	SV-ED-270a.4	Quantitative	-	-	This will be revealed in the 2021 Report.

Correspondence to SASB Standards Table 2

Activity indicator	Accounting indicators	Attribute	Corresponding chapter	Page	Notes
Number of registered students	SV-ED-000.A	Quantitative	History of YunTech and Organizational Framework	16	
Number of students for registration	SV-ED-000.B	Quantitative	-	-	This will be revealed in the 2021 Report.
The ratio of average student credits to online courses	SV-ED-000.C	Quantitative	-	-	This will be revealed in the 2021 Report.
(1) Number of teachers (2) Number of faculty	SV-ED-000.D	Quantitative	Faculty Career Development and Training	52-54	

Assurance Statement



INDEPENDENT ASSURANCE OPINION STATEMENT

YunTech 2020 Sustainability Report

The British Standards Institution is independent to National Yunlin University of Science and Technology (hereafter referred to as YunTech in this statement) and has no financial interest in the operation of YunTech other than for the assessment and verification of the sustainability statements contained in this report.

This independent assurance opinion statement has been prepared for the stakeholders of YunTech only for the purpose of assuring its statements relating to its sustainability, more particularly described in the Scope below. It was not prepared for any other purpose. The British Standards Institution will not, in providing this independent assurance opinion statement, accept or assume responsibility (legal or otherwise) or accept liability for or in connection with any other purpose for which it may be used, or to any person by whom the independent assurance opinion statement may be read.

This independent assurance opinion statement is prepared on the basis of review by the British Standards Institution of information presented to it by YunTech. The review does not extend beyond such information and is solely based on it. In performing such review, the British Standards Institution has assumed that all such information is complete and accurate.

Any queries that may arise by virtue of this independent assurance opinion statement or matters relating to it should be addressed to YunTech only.

Scope

The scope of engagement agreed upon with YunTech includes the followings:

1. The assurance scope is consistent with the description of YunTech 2020 Sustainability Report.
2. The evaluation of the nature and extent of the YunTech's adherence to AA1000 AccountAbility Principles (2018) in this report as conducted in accordance with type 1 of AA1000AS v3 sustainability assurance engagement and therefore, the information/data disclosed in the report is not verified through the verification process.

This statement was prepared in English and translated into Chinese for reference only.

Opinion Statement

We conclude that the YunTech 2020 Sustainability Report provides a fair view of the YunTech sustainability programmes and performance during 2020. The sustainability report subject to assurance is free from material misstatement based upon testing within the limitations of the scope of the assurance, the information and data provided by the YunTech and the sample taken. We believe that the 2020 economic, social and environmental performance information are fairly represented. The sustainability performance information disclosed in the report demonstrate YunTech's efforts recognized by its stakeholders.

Our work was carried out by a team of sustainability report assurers in accordance with the AA1000AS v3. We planned and performed this part of our work to obtain the necessary information and explanations we considered to provide sufficient evidence that YunTech's description of their approach to AA1000AS v3 and their self-declaration in accordance with GRI Standards, Core option were fairly stated.

Methodology

Our work was designed to gather evidence on which to base our conclusion. We undertook the following activities:

- a top level review of issues raised by external parties that could be relevant to YunTech's policies to provide a check on the appropriateness of statements made in the report.
- discussion with managers on approach to stakeholder engagement. However, we had no direct contact with external stakeholders.
- 45 interviews with staffs involved in sustainability management, report preparation and provision of report information were carried out.
- review of key organizational developments.
- review of the findings of internal audits.
- review of supporting evidence for claims made in the reports.
- an assessment of the organization's reporting and management processes concerning this reporting against the principles of Inclusivity, Materiality, Responsiveness and Impact as described in the AA1000AP (2018).

Conclusions

A detailed review against the Inclusivity, Materiality, Responsiveness and Impact of AA1000AP (2018) and GRI Standards is set out below:

Inclusivity

This report has reflected a fact that YunTech has continually sought the engagement of its stakeholders and established material sustainability topics, as the participation of stakeholders has been conducted in developing and achieving an accountable and strategic response to sustainability. There are fair reporting and disclosures for economic, social and environmental information in this report, so that appropriate planning and target-setting can be supported. In our professional opinion the report covers the YunTech's inclusivity issues.

Materiality

YunTech publishes material topics that will substantively influence and impact the assessments, decisions, actions and performance of YunTech and its stakeholders. The sustainability information disclosed enables its stakeholders to make informed judgements about the YunTech's management and performance. In our professional opinion the report covers the YunTech's material issues.

Responsiveness

YunTech has implemented the practice to respond to the expectations and perceptions of its stakeholders. An Ethical Policy for YunTech is developed and continually provides the opportunity to further enhance YunTech's responsiveness to stakeholder concerns. Topics that stakeholder concern about have been responded timely. In our professional opinion the report covers the YunTech's responsiveness issues.

Impact

YunTech has identified and fairly represented impacts that were measured and disclosed in probably balanced and effective way. YunTech has established processes to monitor, measure, evaluate and manage impacts that lead to more effective decision-making and results-based management within the organization. In our professional opinion the report covers the YunTech's impact issues.

GRI Sustainability Reporting Standards (GRI Standards)

YunTech provided us with their self-declaration of in accordance with GRI Standards, Core option (For each material topic covered by a topic-specific GRI Standard, comply with all reporting requirements for at least one topic-specific disclosure). Based on our review, we confirm that social responsibility and sustainable development disclosures with reference to GRI Standards' disclosures are reported, partially reported or omitted. In our professional opinion the self-declaration covers the YunTech's social responsibility and sustainability topics.

Assurance level

The moderate level assurance provided is in accordance with AA1000AS v3 in our review, as defined by the scope and methodology described in this statement.

Responsibility

The sustainability report is the responsibility of the YunTech's chairman as declared in his responsibility letter. Our responsibility is to provide an independent assurance opinion statement to stakeholders giving our professional opinion based on the scope and methodology described.

Competency and Independence

The assurance team was composed of Lead auditors experienced in relevant sectors, and trained in a range of sustainability, environmental and social standards including AA1000AS, ISO 14001, ISO 45001, ISO 14064 and ISO 9001. BSI is a leading global standards and assessment body founded in 1901. The assurance is carried out in line with the BSI Fair Trading Code of Practice.

For and on behalf of BSI:



Peter Pu, Managing Director BSI Taiwan



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2021-07-23

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