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PARTNERSHIPS FOR THE GOALS

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

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135



Course units

2340



Students who chose the course units

2271



International Co-Authored SDG-Related Papers



Research

Building a Disaster-Resilient Homeland

Founded over 20 years ago, the Disaster Prevention and Water Environment Research Center is committed to researching natural disasters and water environment technology, and it has long assisted the government in developing disaster-prevention policies, disaster investigations, post-disaster reconstruction, and talent training. For years, the center has continually supported the research needs of government agencies and implemented major cooperative education programs such as the Ministry of the Interior's "3D Land Deformation and AI-Assisted Spatial Analysis Technology Development," the Water Resources Agency's "Reservoir and Water—Conveying Structure Inspection and Safety Evaluation," the "Flood Warning and Flood Prevention Integration Plan" of the River Management Offices, and seawall risk assessments for city and county governments, reflecting academia's contributions toward the government's flood control works. Other technical contributions to disaster prevention include the Forestry Bureau's "Disaster Mitigation Strategy Development and Safety Monitoring for Potential Areas of Large-Scale Collapse in State-Owned Forests," the Environmental Protection Agency's high-resolution survey and real-time monitoring technology for soil and groundwater pollution, and the earthquake resistance of high-tech factory buildings.

Multinational Study on Liver Disease

Professor Mei-Hsuan Lee from the NYCU Institute of Clinical Medicine was the principal investigator for a multinational survey on liver disease. This was the first international transnational study across Taiwan, Vietnam, Indonesia, Pakistan, Thailand, the Philippines, India, Hong Kong, Malaysia, South Korea, and Singapore, surveying a total of 7500 people. The survey found that Taiwanese people have significantly better knowledge, understanding, and attitudes regarding liver disease than people in the other surveyed countries. The health literacy of Taiwanese people will help Taiwan reach its goal of eliminating viral hepatitis by 2025.

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Social Impact

Annual Sustainable Development Conference

On November 5, 2021, the NYCU Center for Institutional Research and Data Analytics, the Higher Education Sprout Project Office, and University Social Responsibility Promotion Office co-organized the “2021 Conference on Institutional Research, Sustainable Development Goals, and University Social Responsibility.” The purpose of this conference was to encourage universities to constantly review whether campus policies and actions are in line with global sustainable development goals, while looking toward technological development and pursuing excellence. In response to the pandemic, the conference was streamed online and held as a virtual conference. President Han-Chieh Chao of National Dong Hwa University and President Jing-Yang Jou of National Central University were invited to give speeches and to share their insights into the strategies that universities can take to promote sustainability on campuses. The conference also invited NYCU students who won the “1st UN SDGs Research Poster Competition” to present their research on various topics of sustainability. More than 210 researchers and students who have made great contributions to this field of institutional research or who are concerned about sustainable development issues joined this event. More than 100 participants watched the livestream during each session. The event received very positive feedback from all participants.

University Social Responsibility Projects

NYCU’s university social responsibility (USR) project “Tribal Star Incubation—Smart Health Empowerment in Rural Areas” integrated resources from several universities and community organizations to establish a rural medical training center in the Nanao region. The center has cultivated local medical personnel with cultural sensitivity and digital skills, to empower our local partners and jointly promoted health in rural areas. For the “Community Active Aging—Strengthening Physical Fitness, Intelligence, and Skills” USR project, NYCU also collaborated with the New Taipei City Banqiao District Hsiao Chung-Cheng Hospital Community-Based Dementia Care Center, the Zhongxiang Elderly Long-Term Care Center, Taipei Veterans Home, New Taipei City Yonghe District Minquan Community Development Association, New Taipei City Waste Creative Museum, Taipei City Beitou District Jiqing Community Development Association, and Qiyang Adult Day Care Center, among other NGOs. In addition, NYCU has three USR seed projects that work with local communities, NGOs (such as the Eden Social Welfare Foundation, the Presbyterian Church in Taiwan, Altruistic+, etc.), and students and teachers at different universities and schools (National Taiwan University, University of Taipei, Nanao Elementary School, etc.). NYCU will continue to promote the sustainable development of local affairs.





Bringing the World into the Classroom

Fuli Junior High School is the only indigenous village school district in Hsinchu City. Considering that the school is located on the outskirts of the city, and in response to Taiwan's vision to become a bilingual nation by 2030, the NYCU Office of International Affairs was invited by Fuli High School to cooperate over the "Bringing the World into the Classroom" event, where international students share their cultures with the students of Fuli Junior High School. For example, Palestinian doctoral student Mohammed W.I. Sulaiman showed students how people in Muslim countries put on a turban and performed a traditional prayer dance from his home country. So far, NYCU has run five cultural exchange events with international students at Fuli Junior High School. In addition to Palestine, students from Brunei, the United States, Brazil, Vietnam, Indonesia, India, Thailand, and other countries also introduced their cultures to the students of Fuli Junior High School. The "Bringing the World into the Classroom" event mainly consists of international university students sharing their cultures and traditions with school students from grades 7 to 9. By talking about their favorite sports, science experiments, or web design, school students participated in casual English-language conversation. Such international exchange and action to support rural education bring NYCU closer to the community.

Student Cultivation

University Alliance in Talent Education Development (UAI TED)

The UAI TED, which comprises 16 leading Asian universities, held its first industry-academia information-sharing session on December 9, 2021. The event was organized by NYCU and co-organized by NCKU and NCCU, attracting many technology, medical, and financial enterprises. NYCU was also entrusted with the important task of linking leading universities and enterprises to engage in industry-university cooperation. The UAI TED was established in 2019 by the Sayling Wen Cultural & Educational Foundation and the University System of Taiwan. Members include 16 leading universities across Taiwan, Singapore, Malaysia, and Hong Kong. The goal of the alliance is to enable knowledge transfer via cross-border industry-academia exchanges. In addition to electronics and IT, the event also touched on R&D experience in biotech medicine and business management. Going forward, the alliance hopes to continually facilitate multinational industry-academia collaboration so that research results can have a concrete benefit for society.

Creating an Immersive Online Space with the Assistance of International Partners

To enable higher education institutions around the world to continue international education despite the impact of the COVID-19 pandemic, NYCU actively cooperated with international partners to develop opportunities for collaboration. From July 15 to 16, 2021, NYCU collaborated with the National University of Singapore to launch the "Joint Virtual Immersion Program," which involved 150 students across four universities in different regions of the world. Professor Sirirat Sae Lim of NYCU's Institute of Management of Technology and Professor Tian-Li Wu of the International College of Semiconductor Technology were invited to give speeches at the event, sharing Taiwan's technological development and the features of NYCU's industry-academia research collaboration with students from Singapore, Hong Kong, China, and Taiwan. Another 16 NYCU students also participated in the event, hosting four cultural workshops, in which they shared Taiwan's indigenous cultures and campus life with students of NYCU's sister universities. The "Joint Virtual Immersion Program" was intended to create an international exchange platform for teachers and students to share professional knowledge and create opportunities for bilateral interaction. Thanks to the help of international partners, teachers and students could expand their international horizons and continue their international education, even if borders were closed due to the pandemic.



International Partnerships

NYCU is committed to collaborating with local government agencies, as well as universities and research institutes from around the world, to achieve the Sustainable Development Goals. In 2018, the Chiaotung campus and TAISE signed the Letter of Intent on Sustainable Development Cooperation. Furthermore, NYCU has also worked with other government agencies and international institutions, including the following:

- NYCU collaborated with the Sayling Wen Cultural & Educational Foundation to establish the University Alliance in Talent Education Development (UAIT-ED) to cultivate future industry-academia talent worldwide.
- As a member of the Association of East Asian Research Universities (AEARU), NYCU helped to develop an online classroom program so that students and teachers worldwide can learn together in diverse ways.
- The CDC of the Ministry of Health and Welfare commissioned “NYCU’s Research Center for Epidemic Prevention” to research the immune response of COVID-19 patients as an important reference for future vaccination policies.
- Working with TSMC, the university founded the TSMC × NCTU Energy Education Center, a high-quality learning environment in a sustainable building that provides lifelong learning opportunities for all.
- NYCU has collaborated with multiple government organizations, cultural and educational institutions (Ministry of Culture; Ministry of Education; Hsinchu City Cultural Affairs Bureau; Endemic Species Research Institute, Council of Agriculture, Executive Yuan; the Bat Association of Taiwan; National Tsing Hua University; Center for Urban Planning and Design of Chung Yuan Christian University; Kuang-Fu High School; Jiangong Primary School; and Lixel Inc.) to promote the Hsinchu Living Museum project and enable the public to understand the WWII-era historical site and military community culture of Hsinchu's Sixth Fuel Factory, to facilitate the sustainable development of the local culture.
- With the Community Angel and Yang-Ming Crusade volunteer groups, the Yilan City Office, village chiefs across Yilan City, and the chairmen of community development associations, the National Yang Ming Chiao Tung University Hospital conducts interviews and assessments of senior citizens over the age of 65 in Yilan, providing care and necessary support for senior citizens with urgent needs.
- As part of the Ministry of Education's Aesthetics and Design Curriculum Innovation Plan, the university promotes aesthetic education and teacher empowerment training to improve the public's aesthetic literacy.
- The International Center for Cultural Studies (ICCS) established partnerships with 12 international academic institutions, forming a research team of 36 experienced researchers and 24 young academics from around the world to engage in discussions and plan the establishment of the “Global Humanities Institute,” focusing on “migration, logistics, and inequalities of the current global context.”
- NYCU worked with the Ministry of Health and Welfare to implement community health and welfare counseling plans for the outlying islands, conducting counseling work in Kinmen County, Penghu County, Lianjiang County, Liuqiu Township, and Pingtung County to promote the mental and physical health of the public.
- In addition, NYCU partnered with many NGOs as part of its service-learning collaboration, including World Vision Taiwan, Genesis Social Welfare Foundation, Huashan Social Welfare Foundation, Syin-Lu Social Welfare Foundation, Fu-Hsin Care Association, and ChuHsin Family.