17

PARTNERSHIPS
FOR THE GOALS

Publications related to the SDGs 2018-2022
8,968

Course Units
319

Student Engagements with Units on SDG 17
9,156

Research

Exploring Renewable Energy Through Multilateral Collaboration

To slow down global warming, countries around the world are developing alternative fuels and renewable energy. Associate Professor Tzu-En Lin of NYCU' s Institute of Biomedical Engineering conducted a multinational study with experts and scholars from China, Germany, and Switzerland, with a comprehensive assessment, comparison, and experimental verification of different types of fuel cells from perspectives like system configuration, technical specifications, and energy management. The study confirmed the economic and environmental advantages of oil-electric hybrid systems, which can resolve the problem of low energy conversion efficiency of a single power source and the serious carbon emissions from traditional engines. The study also proposed solutions regarding costs and technical issues, and suggested that governments actively promote the construction of hydrogen energy infrastructure, educate the public, and create market opportunities. The research has been published in the international journal *Renewable and Sustainable Energy Reviews*.

Taiwan-Brazil 6G Communications Research Team

NYCU and the Instituto Nacional de Telecommunications (Inatel) signed a "Technology, Science, and Academic Collaboration Agreement" for international collaboration in the field of 6G communications. NYCU and Inatel will research and develop innovative technologies regarding core networks, access networks, network intelligence, and emerging enabler technology, in addition to addressing the social ethics issues arising from 6G technology. The participating research team is made up of individuals from different disciplines and comprises more than 20 professors from various fields such as electrical engineering, information technology, and humanity and social sciences.

Social Impact

International Education Forum

To bring a sense of innovation to Taiwan's international education development, NYCU and the Association of International Cultural and Educational Exchange Taiwan co-organized the first "International Education Forum," which included extensive discussions on three major issues: global perspectives, digital innovations, and local practices. Many international experts and scholars were invited to the forum, and 41 high schools and 48 universities participated. In recent years, NYCU has actively incorporated international education into liberal arts education and internationalization empowerment courses so that these concepts can become a part of campus life. NYCU also actively promotes glocalization, not only enabling Taiwanese students to experience multiculturalism during the COVID-19 pandemic, but also encouraging international students to interact with local students in rural areas, giving rural students a chance to experience international culture and international students a chance to learn more about Taiwan.

Citizen Conference on Net-Zero Emissions

To raise public awareness on net-zero emissions policies and promote the importance of engaging in dialog with society, NYCU's Institute of Science, Technology and Society collaborated with Stanford University' s Deliberative Democracy Lab to organize the "How to Achieve Net-Zero Emissions by 2050?" citizen conference. Nearly 100 citizens of different ages and professions across Taiwan gathered in the online conference to discuss the topics "energy decarbonization," " transport transformation," and "carbon pricing." By attending the conference, not only did citizens gain knowledge about net-zero policies and deepen their knowledge on net-zero emissions, but they also learned to pay attention to other people' s perspectives as they contemplated and debated the problems and challenges that lie ahead.

Education & Cultivation

University Alliance in Talent Education Development (UAiTED)

NYCU is a member of the University Alliance in Talent Education Development (UAiTED), which was established by the Sayling Wen Cultural & Educational Foundation and the University System of Taiwan. Members include 16 top Asian universities from Taiwan, Singapore, Malaysia, and Hong Kong. The alliance is committed to promoting projects that connect students, industries, and universities, facilitating talent recruitment and industry-academia cooperation. NYCU continues to carry out internship programs with overseas corporations and talent training courses, as well as innovation and entrepreneurship training and competitions, hoping to show corporations the research and development results of member universities facilitate international industry-academia collaboration and ensure that research results benefit society.

Paying Attention to Global Sustainable Development Issues

To encourage students to pay more attention to the 17 Sustainable Development Goals (SDGs) proposed by the UN' s 2030 Agenda for Sustainable Development, NYCU's Center for Institutional Research and Data Analysis organized the "2nd Sustainable Development Goals Research Poster Awards." The competition aims to make students think about their majors within the framework of global sustainability issues and connect them with the UN SDGs, encouraging them to broaden their perspectives to global issues and think about how these issues concern them in the context of globalization. By connecting sustainable development issues with innovation, R&D and practical skills, the competition not only promotes the concept of sustainability, but also makes research results more meaningful and contributes to the sustainable development of Earth.

Stewardship

Association of East Asian Research Universities

NYCU is a member of the Association of East Asian Research Universities (AEARU), which is currently comprised of 18 research universities across Japan, South Korea, China, Hong Kong, and Taiwan. The association is committed to promoting intellectual creativity and academic exchanges in East Asia. It holds international seminars, workshops, student summer camps, and student sports competitions, enabling teachers and students around the world to learn from each other in diverse ways, and developing close ties between member universities.

Ukrainian Student Scholarship Fundraising Program

To help Ukrainian youths continue their studies while their country is at war, NYCU launched the Ukrainian Student Scholarship Fundraising Program to assist displaced Ukrainian students. All the funds raised are used for emergency relief and scholarships for Ukrainian students enrolled in NYCU, and can be used for tuition and miscellaneous expenses, domestic an international transportation costs, accommodation and living expenses, and other expenses to ensure that they can study in peace. With funding support from over 16 enterprises and alumni, more than NT$40 million were raised for the scholarship. After NYCU and students worked together to overcome various challenges with visas, long travel, and epidemic prevention measures, 19 Ukrainian students are currently studying at NYCU.