



University : National Chin-Yi University of Technology
 Country : Taiwan
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[SDGs 17] Partnership for the Goals 全球夥伴

[17.3.17] Please indicate if your university publishes progress against SDG17?

National Chin-Yi University of Technology (NCUT) actively contributes to **Sustainable Development Goal (SDG) 17** by building **strong partnerships with government agencies, industries, academic institutions, and non-governmental organizations (NGOs)** to promote sustainable development. NCUT recognizes that achieving the SDGs requires collaboration and shared resources. Therefore, it prioritizes partnerships that foster **innovation, environmental conservation, education, and community engagement.**

A.Global Sister School Partners


(A) Establishment of Sister Schools with Outstanding Asian Universities

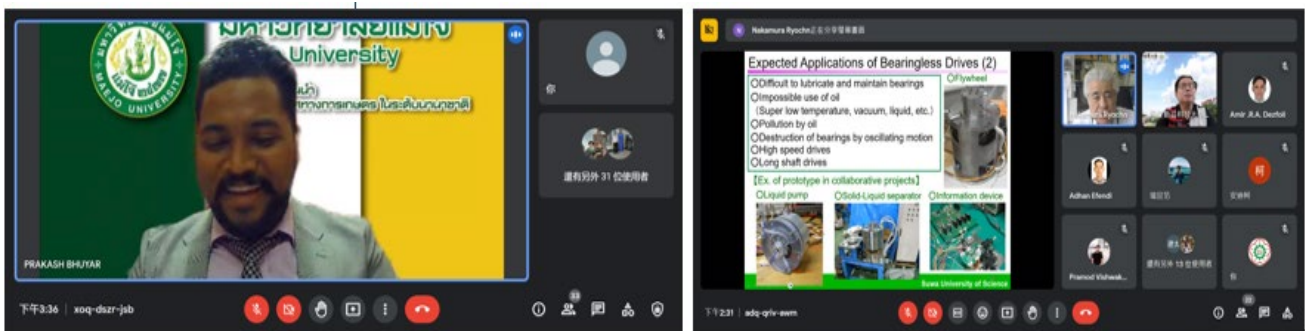
<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>NCUT establishes sister school relationships with outstanding universities in Japan, South Korea, Thailand, and other Asian countries. This initiative includes joint organization of international exchange activities to foster collaboration and partnership.</p>
<p>» Achievements »»</p>	<p>Currently, NCUT is actively forging exchange relationships with numerous outstanding universities across Asia. In addition to strengthening ties with existing sister schools, NCUT has successfully established sister school partnerships with several prestigious universities. Refer to the below figure for details.</p>



NCUT signed an academic cooperation agreement with Nakhon Pathom Rajabhat University in Thailand.

(B) International Sister Schools: Elimination of inequalities in education and ethnic groups & international seminars

<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>NCUT organized an online "Sustainable Development and Industry-Academic Research Exchange Workshop for University Global Partners" with sister universities in Japan, Thailand, Indonesia, India, Norway, and Hong Kong.</p>
<p>» Achievements »»</p>	<p>In response to the global COVID-19 pandemic since 2020, physical international exchanges have been suspended. However, to maintain and strengthen the exchange relationships between NCUT and its sister schools, more than 20 online workshops and seminars have been conducted thus far. These events have brought together teachers and students from each institution, fostering deeper connections and providing a platform for academic collaboration. These efforts not only strengthen international ties but also stimulate academic cooperation, serving as a vital component in achieving sustainable development goals. (See the below figure for reference.)</p>



Sustainable development and industry-university academic research exchange workshop of the university's global partners

(C) International exchanges between Japanese sister schools

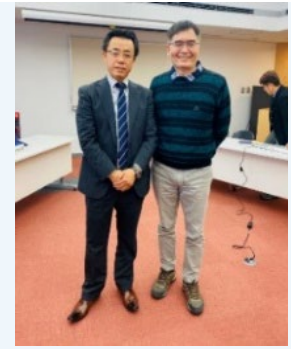
<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>Strengthening cooperation and partnership through visits to sister schools worldwide and implementing long-term visiting plans for professors and teachers. This aims to deepen cooperation, establish robust partnerships, and facilitate technical exchanges and collaboration between faculty and students.</p>
<p>» Achievements »»</p>	<p>Visits were made to sister schools such as Suwa University of Science and Kyushu Institute of Technology in Japan. Discussions were held with the International Affairs Office of NCUT regarding the dual academic system and international exchanges. Meetings with Professor Sugita from Suwa University of Science focused on his information security project. Exchange of opinions and cooperation plans were discussed, including collaboration on information security projects and laboratory research. Cooperation discussions were also conducted with Professor Araki of Kyushu Institute of Technology, focusing on the design of random number generators in information security. Cooperation agreements were reached with both laboratories, and arrangements were made for a professor to take a research leave and collaborate for six months at Kyushu Institute of Technology. This collaboration involves guiding students and conducting joint research. As shown in the Figure .</p> <div style="display: flex; justify-content: space-around;">   </div>



▲ Discuss and share topics with Professor Araki from Kyushu Institute of Technology



▲ Photo with Professor Araki and laboratory members from Kyushu Institute of Technology after the meeting



▲ Take a photo with Professor Han from Suwa University



▲ Exchange meeting



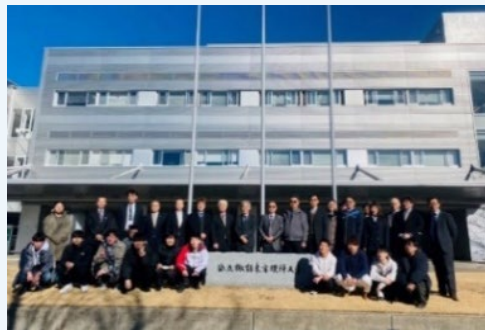
▲ Visit to Professor Sugita's laboratory and discussion



▲ Photo with Professor Sugita



▲ Discuss cooperation matters with Suwa University

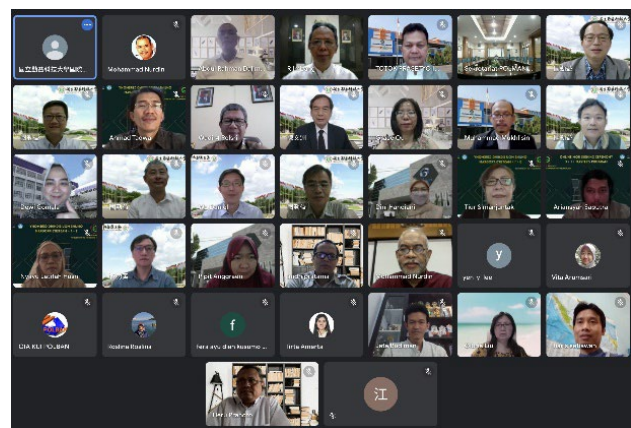


▲ Photo with Suwa University staff

Figure Discussing the dual academic system and international exchanges with Japanese sister schools

(D) Contract Signing with Indonesian Alliance of Five Institutions of Higher Learning

<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>NCUT signed a 3+1+Master's program contract with five national universities in Indonesia, including Politeknik Negeri Semarang (Polines), Politeknik Negeri Sriwijaya (Polsri), Politeknik Negeri Medan (Polmed), Politeknik Negeri Bandung (Polban), and Politeknik Manufaktur Bandung (Polman).</p>
<p>» Achievements »»</p>	<p>NCUT actively recruits outstanding Indonesian students to study at the university as preparatory graduate students for foreign master's degrees. In the first semester of 2023, four students will enroll as preparatory graduate students for foreign master's degrees. (Refer to the below figure for details.)</p>



Signed 3+1+Master's Program contracts with five national universities in Indonesia


(E) Recruiting Students from Southeast Asia and Enhancing the Cultivation of Industry Talent

<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>NCUT has fostered academic cooperation with countries including Indonesia, Vietnam, Malaysia, Cambodia, and others. Many outstanding teachers and students from these countries have visited NCUT for exchanges.</p>
<p>» Achievements »»</p>	<p>NCUT actively recruits outstanding Southeast Asian students to participate in industry-university cooperation special classes. Since 2020, the university has successfully organized 7 special classes for foreign students and facilitated the exchange of students to NCUT. In the first semester of the 2021 academic year, 4 Vietnamese students participated in a one-year exchange program at NCUT. (Refer to Figure 143 for details.)</p>



NUCT invites teachers and students from Southeast Asian countries for academic cooperation and exchanges

(F) Indian Institute of Technology Bhilai (IIT Bhilai) promotes Chinese language learning

» Alignment with SDGs goals	
» Promotional practices	<p>Recommending outstanding Chinese teachers to teach Chinese classes at sister schools in India.</p>
» Achievements	<p>NCUT has recommended Chinese teachers to teach at IIT-Bhilai for over five years. During this period, hundreds of students have received high-quality Chinese education. This initiative not only enhances Indian students' understanding of Taiwanese culture but also provides them with high-quality Chinese education. (Refer to the below figure for details.)</p>



Recommend outstanding Chinese teachers to teach Chinese classes at sister schools in India.

B. Overseas volunteers and overseas internships

<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>Establishing cooperative relationships with overseas internship providers, recommending numerous outstanding students from NCUT for overseas internship programs in various countries, allowing them to experience diverse cultural customs.</p>
<p>» Achievements »»</p>	<p>Actively advancing the technicalization of overseas internships, with 35 students recommended for overseas internships in countries such as Japan, Switzerland, Canada, Australia, Malaysia, and Thailand since 2020. As shown in the following Figure.</p>



Figure NCUT students go overseas for internship

C.Japanese Research Center

» Alignment with
SDGs goals »»



The Japan Research Center, in establishing the SDG 17 global partnership, communicates with Japanese experts and scholars, fostering dialogue between different backgrounds and perspectives. International seminars, lectures on gender equality education, and workshops conducted by Japanese experts and scholars in Taiwan and Japan provide platforms for students to discuss gender equality and global partnership issues. The center integrates academic research and practice by organizing outdoor visits to address gender equality legal litigation issues in courts and encouraging student participation in court observations. Additionally, partnerships with international institutions, NGOs, and universities facilitate knowledge exchange and resource sharing, promoting transnational cooperation for gender equality and global partnership goals. The "Central Taiwan Japan Studies Forum" held with other universities deepens global sister Japanese research partnerships. (Refer to the below Figure for details.)

» Promotional
practices »»





▲ Professor Takahashi Takaharu performs Japanese stand-up comedy



▲ Professor Kikuo Obama presented more than a thousand original Japanese books to the Cultural Library of the Japanese Research Center



▲ Lecture to commemorate the completion of the J Japanese Research Center Cultural Library cum Japanese Forum



▲ Students participate in court observation and auditing



▲ International Symposium on Taiwan-Japan Environmental Issues



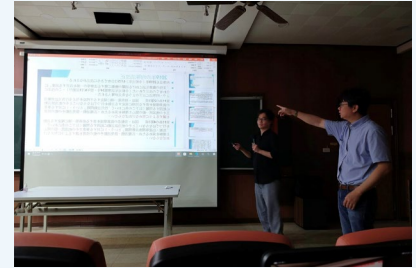
▲ Central Taiwan Japanese Studies Forum



▲ Lecture on gender equality education issues



▲ Discussion and sharing on issues related to gender equality



▲ Taiwan-Japan Gender Equality Education Workshop

Japan Research Center conducts cooperation and exchanges between Taiwan and Japan

D. Participation in Yunus Global Partnership (NCUT YSBC)

» Alignment with
SDGs goals »»



» Promotional
practices »»

The Taiwan Yunus Foundation signed a contract with President Chen Wenyuan and Professor Deng Meizhen of the Department of Business Administration in March 2021 to establish the Yunus Social Enterprise Center, the 12th in Taiwan and the second in central China. The center aims to achieve the Three Zeros proposed by Dr. Yunus for the 2016 Nobel Peace Prize: zero net carbon emissions, zero unemployment, and zero poverty. Activities such as tree planting, food waste reduction, long-term care, and promoting love without barriers are actively promoted. (Refer to Figure 147 for details.)



Figure Philippa Tsai, Chairperson of the Foundation for Yunus Social Business Taiwan (second person on the left), joined hands with Chen, Wen-Yuan, President of NCUT (second person on the right) to sign a contract for the founding of YSBC.

E.Participation in Taiwan-Germany Alliance (TAI-HAW)


<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>Outstanding teachers and students are recommended to represent the school in communication with German universities.</p>
<p>» Achievements »»</p>	<p>Outstanding teachers and students participated in the TAItech-HAWtech study visit to Germany, where they visited three universities: Kaslu University of Applied Sciences (HKA), Aachen University of Applied Sciences (FH AACHEN), and Dresden University of Applied Sciences (HTWD). Each university has a wide range of research fields, covering machinery, industry, clean energy, automation, artificial intelligence, and other areas. In addition to completing the international cooperation plan (TAItech-HAWtech plan), this visit also involved learning about the research projects at these universities and proposing the possibility of cooperation. (Refer to the below figure for details.)</p>



Figure NCUT teachers and students participate in TAItech-HAWtech study visit itinerary

F. Prospective Materials Carbon Reduction Laboratory


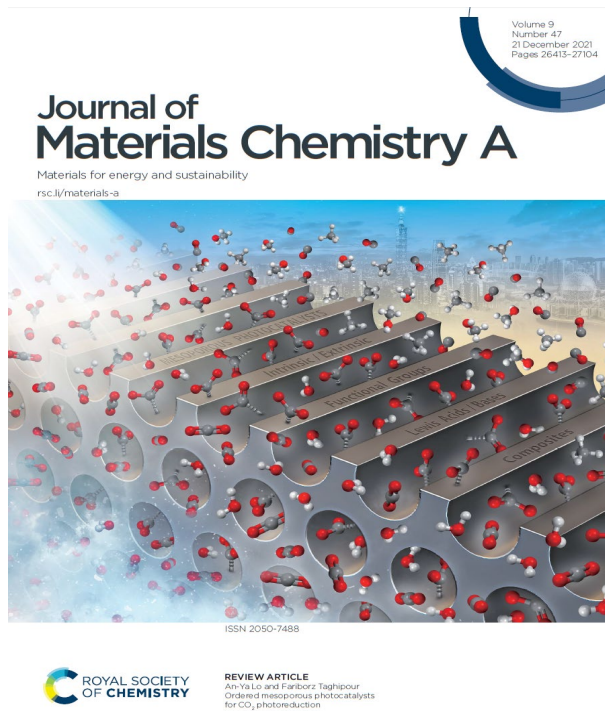
<p>» Alignment with SDGs goals »»</p>	
<p>» Promotional practices »»</p>	<p>The Department of Chemical Materials at NCUT conducts exchanges, visits, collaborative research, and joint publications with Canada, India, Poland, and other countries to promote cross-border exchanges of ideas and improve the research and development of innovative technologies.</p>
<p>» Achievements »»</p>	<p>From 2021 to July 2023, a total of 11 papers were published with multinational researchers. As shown in Figure 155 and Table 71.</p> <div data-bbox="783 792 1390 1500" data-label="Image">  </div> <p>Figure Cooperation with UBC was featured on the cover of the journal</p>

Table Promote collaboration between multinational researchers to publish papers

Collaborators	Year	Journal	Paper Topic
Canadian Professor	2023	Applied Materials Today	Effect of Ag-doping strategies on the Lewis acid/base behavior of mesoporous TiO ₂ photocatalyst and its performance in CO ₂ photoreduction
	2023	Materials Science and Engineering: B	High performance UV-LED activated gas sensors based on ordered carbon mesoporous materials loaded with ZnO nanoparticles
	2021	Applied Materials Today	Review and prospects of microporous zeolite catalysts for CO ₂ photoreduction
	2021	Journal of Materials Chemistry A	Ordered mesoporous photocatalysts for CO ₂ photoreduction
Indian postdoctoral researcher	2023	Materials Chemistry and Physics	Development of a polyaniline/CMK-3/hydroquinone composite supercapacitor system
	2023	Journal of Environmental Chemical Engineering	Nickel molybdate/cobalt molybdate nanoflakes by one-pot synthesis approach for electrochemical detection of antipsychotic drug chlorpromazine in biological and environmental samples
India and Poland University researchers	2023	Heliyon	Quantum computational investigation into structural, spectroscopic, topological and electronic properties of L-histidinium-L-tartrate hemihydrate: Nonlinear optical organic single crystal
	2023	Journal of the Indian Chemical Society	Conductivity measurement and dielectric, impedance and modulus spectroscopic studies on bis (P-nitrophenol) melaminium monohydrate
	2022	Catalysts	Hydrothermal Synthesis of CuO/RuO ₂ /MWCNT Nanocomposites with Morphological Variants for High Efficient Supercapacitors
	2022	Heliyon	DFT, hirshfeld and molecular docking studies of a hybrid compound - 2,4-Diamino-6-methyl-1,3,5-triazin-1-ium hydrogen oxalate as a promising anti -breast cancer agent
	2022	Journal of Molecular Structure	Structural, vibrational characterization and DFT calculations of urea: DL-malic acid (1:1)-co-crystal