



2022 ▶ 2023

V O S

iversity originality ervices



Toward

The World



Introduction to International Exchange

UNITED NATIONS academic impact

Sharing a Culture of Intellectual Social Responsibility



- A commitment to the opportunity for every interested individual to acquire the skills and knowledge necessary for the pursuit of higher education;
- A commitment to building capacity in higher education systems across the world;
- A commitment to promoting sustainability through education;

Member of United Nations Academic Impact
<https://www.nagaokaut.ac.jp/e/annai/intro/sdg/unai.html>

1 INTERNATIONAL NETWORK

Achievement in International Exchange

○ Agreement of Academic and Educational Collaboration

111 institutions in 32 countries and regions
(as of January 1, 2023)

○ International Students

265 students from 22 countries and regions
(as of January 1, 2023)

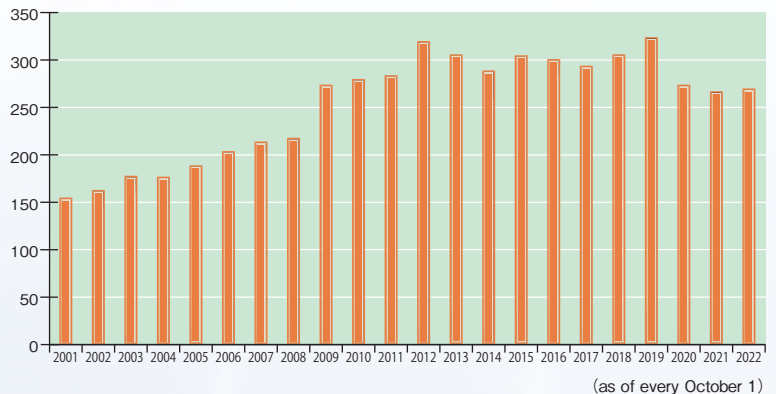
○ Overseas NUT Offices

(as of January 1, 2023)

- * Vietnam : Hanoi, Ho Chi Minh City
- * Mexico : Monterrey, Guanajuato
- * Thai : Bangkok
- * India : Chennai
- * Malaysia : Penang
- * Mongolia : Ulaanbaatar
- * Spain : Basque Country
- * Chile : Santiago City
- * Romania : Bucharest, Cluj Napoca



Number of International Students



“Top Global University Project”

Our program is aimed to create “a university that has solid networks with strategic regions in the next-generation and which continues to take a lead in practical, global engineer education that leads the world” through establishing “GIGAKU Education and Research Network,” which expands systems to develop practical engineers, including high schools and KOSEN (National Institute of Technology) to overseas countries and establishing “GIGAKU Techno Park Network,” which expands industry-academia collaboration models to overseas bases.

Integrated Global Campus with Collaboration between Industry, Academia and Government

The Network through the International cooperation of Education (GIGAKU Education and Research Network) and International cooperation of Industry-Academia-Government (GIGAKU Techno Park Network) which is linking to strategic regions in the next-generation tightly, and supporting international co-education and joint research.

GIGAKU Education Research Network

Developing global human resources through free mobility of students between campuses located world-wide. Nurturing engineers based on GIGAKU and producing them to the world.

GIGAKU Techno Park Network

Promoting Industry-Academia-Government Cooperation Model at overseas strategic regions and establishing GIGAKU Techno Park.

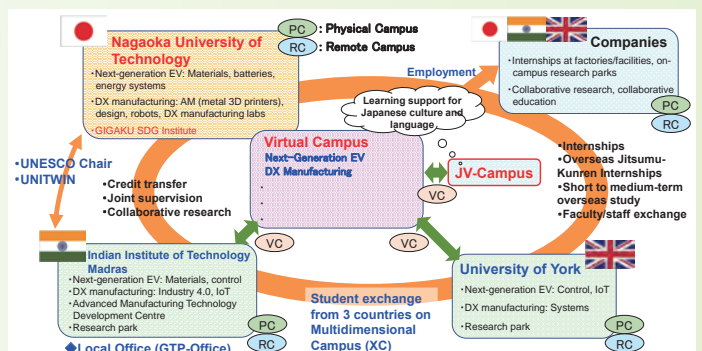


Inter-University Exchange Project

“Inter-University Exchange Project” is a project launched by the Ministry of Education, Culture, Sports, Science and Technology (MEXT), which pursues the goals of developing global human resources who can be active in the international arena and of strengthening the capacity of global development of university education. Assuring the quality of higher education, it aims to support the challenges of international educational cooperation between overseas study by Japanese students and universities in Asia, U.S., and Europe, which strategically accept foreign students.

International Cooperative Educational Program using Dual Internship on Multidimensional Campus (FY2022-2026)

This project will establish a multidimensional campus (XC) that effectively combines face-to-face exchanges, remote exchanges, and virtual exchanges with partner universities, University of York in the U.K. and Indian Institute of Technology Madras in India, to create an environment that enables students from our university and partner universities to interact at any time and location.



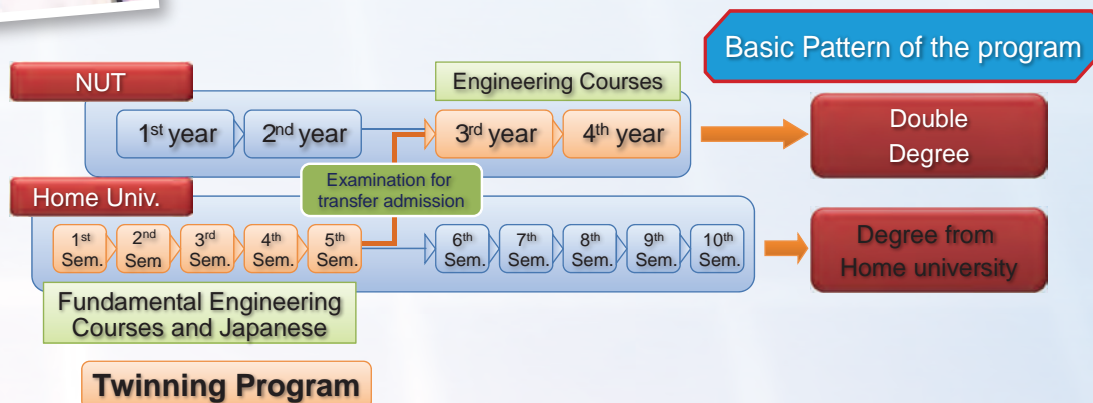
2 EDUCATION PROGRAM LINKED TO THE WORLD

International Collaborative Education



Outline of the Twinning Program

Provides an opportunity for students to receive a comprehensive undergraduate engineering education in the course of a **two-year stay in Japan**



International Collaborative Education Programs

- **Twinning Program (Undergraduate Program)**
 - Hanoi University of Science and Technology (Vietnam)
 - Ho Chi Minh City University of Technology (Vietnam)
 - Danang University of Science and Technology (Vietnam)
 - Universidad Autonoma de Nuevo Leon (Mexico)
 - Universidad de Monterrey (Mexico)
 - Zhengzhou University (China)
 - Malaysia TP (UniKL Japan Universities Programme [UniKL JUP], Malaysia)
 - Mongolia University of Science and Technology (Mongolia-Japan Higher Engineering Education Development Project [M-JEED], Mongolia)
- **Double Degree Program (Graduate Program)**
 - Master's Program:
 - Universidad de Guanajuato (Mexico)
 - Chulalongkorn University (Thailand)
 - Hanoi University of Science and Technology (Vietnam)
 - Doctoral Program:
 - Universidad de Guanajuato (Mexico)
 - Chulalongkorn University (Thailand)
- **Joint Supervision Program (Doctoral Program)**
 - Indian Institute of Technology Madras (India)

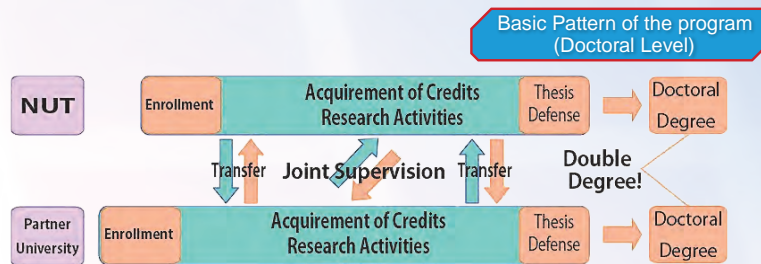
SDG Professional Course (A new UNESCO Chair Program)

In order to establish an educational program that adopts the principles of Sustainable Development Goals (SDGs), NUT has created the GIGAKU SDG Institute to tackle the shared challenges faced by the world. The GIGAKU SDG Institute was officially designated a UNESCO Chair in May 2018. As a postgraduate program targeting international students—an important element of the UNESCO Chairs Programme—this course aims to nurture the development of practical engineers and researchers with a high level of expertise and diverse views, as well as train key proponents of advanced engineering education. NUT has 5 slots each for MEXT & University's own scholarships.



Outline of the Double Degree Program

The Double Degree Program is an international cooperative education program that will enable students enrolled in the graduate school at their Home University to transfer to the graduate school at the Host University in order to obtain the degrees of both universities upon completion of the program.



Nagaoka Summer School for Young Engineers (NASSYE)

※NASSYE has been suspended since 2020 due to COVID-19.

Every August, NUT hosts a two-week short-term study program for third-year undergraduates from overseas universities.

During this time, the visiting students are assigned to laboratories at NUT, where they experience Japan's science and technological innovations through research in specialized fields. The students also experience the learning and living environments of a Japanese university. In the program, the students engage in research in their assigned laboratories, and take part in industrial visits and Japanese cultural experiences that strengthen ties with NUT students.

Approximately 100-120 students from universities throughout the world (including universities with academic exchange agreements with NUT) apply to this program every year, but only 20 students are accepted. The program has a high level of satisfaction, and many participants aspire to further their studies at NUT or a graduate school in Japan.



3 GLOBAL LEADERSHIP

Cultivation of Practical Global Leaders

[Internship]

NUT offers opportunities for the 4th year undergraduate students to participate in internships at private enterprises, government agencies, or public entities in order to recognize the needs of society in the fields of science and engineering. This program began in 1979 and was expanded to include overseas internships in 1990. The program stimulates students to have practical experience, develop originality and understand the significance of learning through the internship experiences.

[Overseas Internship] (Since 1990)

10 interns have been sent to 10 institutes in 4 countries. A total of 994 interns up to 2022.

Countries and regions of the host organizations:

UK, India, Indonesia, Australia, Spain, Thailand, Germany, Norway, France, Vietnam, Malaysia, Mexico, Russia, Philippine and Romania.

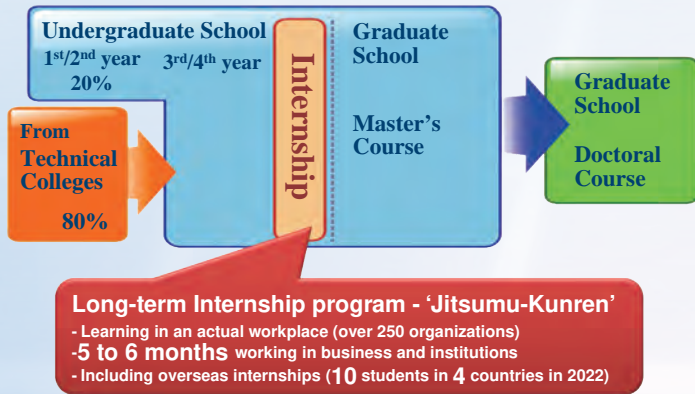
Host Organizations overseas:

York JEOL Nano Centre (UK), Mitsubishi Electric R&D Centre Europe (MERCE) (France), MERSEN (France), Australian Nuclear Science and Technology Organisation (Australia), Schaeffler Technologies AG & Co. KG (Germany), SINTEF (Norway), Advantest Engineering (Malaysia), Azbil Production (Thailand), Western Digital (Thailand), Sangcharoen Tools Centers Co., Ltd. (Thailand), Daikin Industries (Thailand) Ltd. (Thailand), TOSHIBA CARRIER (THAILAND) CO., LTD. (Thailand), PT. MEKAR ARMADA JAYA (Indonesia), PT Yokogawa Indonesia (Indonesia), Sorimachi Viet Nam, Co., Ltd. (Vietnam), YKK Vietnam (Vietnam), bGlobal Corporation (Vietnam), IMLINK VIETNAM Co., Ltd. (Vietnam), ABE INDUSTRIAL VIETNAM CO., LTD. (Vietnam), N.B.A Trading and Production CO. LTD (Vietnam), NexSeed Inc. (Philippine), FRISA (Mexico), Bucharest Robots (Romania)



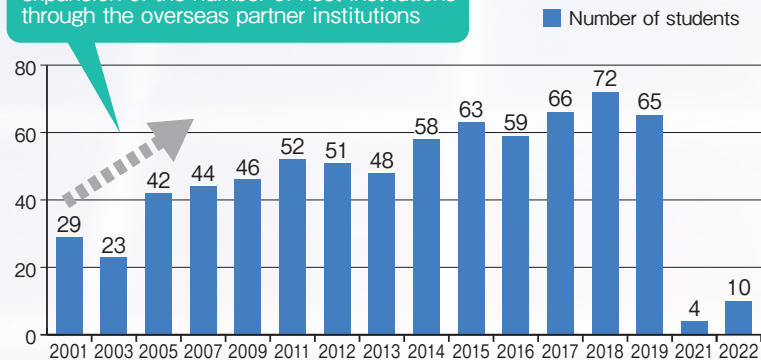
NUT's Internship Program

Unified undergraduate-to-graduate education system



Overseas Internship

expansion of the number of host institutions through the overseas partner institutions



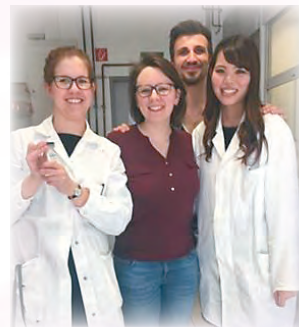
※Before COVID-19, about 19% of all interns did an internship abroad

Overseas Training Programs

Universidad de Monterrey (Mexico)



Universitat Duisburg-Essen (Germany)



University of Guanajuato (Mexico)



Indian Institute of Technology Madras (India)



King Mongkut's University of Technology Thonburi (Thailand)



4 COOPERATION WITH SOCIETY

International Contributions and International Exchanges in collaboration with Local Community

○International Contributions

NUT actively involves the technical cooperation projects implemented by JICA

Indonesia:

- * Higher Education Development Support Project
- * The Project for Strengthening of Polytechnic Education in Electric-related Technology

Thailand:

- * Dispatch of Experts to International Agencies
- * Development of a Mechatronics Engineering Course at Bachelor's Degree Level in Pathumwan Technical College
- * Project to Enhance the Capacity of the Faculty of Engineering at Thammasat University

Vietnam:

- * Projection Vietnam Information Technology Training Institute
- * Study on the Hydro Meteorological Monitoring for Water Quantity Rules in Mekong River Basin
- * The Project for Human Resource Development Scholarship by Japanese Grant Aid (JDS) (2017-present)
- * Vietnam Japan University (2022-present)

Mongolia:

- * Mongolia Higher Engineering Education Development Project (M-JEED) (2014-present)
- * The Project for Human Resource Development Scholarship by Japanese Grant Aid (JDS) (2020-present)



Malaysia:

- * Malaysia-Japan International Institute of Technology (MJIT) (2003-present)

Saudi Arabia:

- * The Project on Improvement of the Technical Education of Electronics in the College of Technology in Riyadh

East Timor:

- * Capacity Development of the Faculty of Engineering, Science and Technology, the National University of Timor-Lorosa'e

China:

- * The Higher Education Project in China

Others:

- * Myanmar Economic Structural Adjustment
- * Higher Education Assistance Programme
- * Project for the Promotion and Enhancement of the Afghan Capacity for Effective Development
- * Master's Degree and Internship Program of African Business Education Initiative for Youth (2017-present)

○Sakura Science Exchange Program (Japan Science and Technology Agency)

NUT has participated in this program since 2014 and invited over 200 young international students from Asian countries, for example Vietnam, Thailand, Malaysia, India, China and so on.



○Nagaoka International Festival (Kokusai-Matsuri)

This festival is held annually for the purpose of international and intercultural exchange with residents in Nagaoka and neighboring cities.

○Other International Exchange Events with the Local Community

- * Cooperation with International Exchange Volunteers in the Local Community
Voluntary group organized to support NUT international students (Mutsumi-kai)
- * Japanese Speech Contests sponsored by Mutsumi-kai
- * Dispatching NUT's international students to elementary and middle schools in neighboring cities as teachers of international exchange ("Sekai-ga sensei" project by Nagaoka City)



International Exchange



Number of International Students

(as of January 1, 2023)

Countries	Classification	Under graduate Students	Graduate Students			Research Students (non-degree)	Total
			Master's Program	Doctoral Program	5-year Integrated Doctoral Program		
Asia	India		5				5
	Indonesia	1	1	2	2		6
	Korea	1					1
	Cambodia	1					1
	Sri Lanka		4	7	5	1	17
	Thailand	1	2	4	4	2	13
	China	6	36	20	2	4	68
	Pakistan		2	2			4
	Bangladesh		3	4			7
	Vietnam	25	25	6	8		64
	Malaysia	9	3		1		13
	Myanmar		1	1		1	3
	Mongolia	19	4	1	1		25
	Laos	2					2
	Jordan			1			1
Africa	Senegal	1	1				2
	Tunisia					1	1
Europe	Spain		1			3	4
	Romania					1	1
Central and South America	Columbia					1	1
	Peru	1					1
	Mexico	14	9		2		25
Total		81	98	47	25	14	265



International Collaboration Partners

(as of January 1, 2023)

Areas	Countries	Partners	
Asia	India	Indian Institute of Technology Madras	
		Indian Institute of Technology Kharagpur	
		Department of Mechanical Engineering, Indian Institute of Technology Tirupati※	
		School of Engineering Discipline of Metallurgy Engineering and Material Science, Indian Institute of Technology Indore※	
		Cardiovascular Biology Laboratory, Agharkar Research Institute※	
	Indonesia	Institut Teknologi Bandung	
		Universitas Indonesia	
		Institut Sains dan Teknologi Pradita※	
	Korea	University of Ulsan	
		Pusan National University	
		Kiejin Lee Laboratory at Sogang University※	
		College of Veterinary Medicine, Chungnam National University※	
	Sri Lanka	University of Moratuwa	
	Vietnam	Hanoi University of Science and Technology	
		University of Danang	
		Ho Chi Minh City University of Technology	
		Ho Chi Minh City University of Technology and Education	
		Vietnam Maritime University	
		Vietnam Atomic Energy Institute	
		University of Science-VNU HoChiMinh City	
		Electric Power University	
		Faculty of Biotechnology, Vietnam National University of Agriculture※	
		Department of Environmental Science, Saigon University※	
		Thailand	Thammasat University
			Pathumwan Institute of Technology
			Khon Kaen University
	Rajamangala University of Technology Thanyaburi		
	National Science and Technology Development Agency		
	Thai-Nichi Institute of Technology		
	Chulalongkorn University		
	Asian Institute of Technology		
	Suranaree University of Technology		
	Mae Fah Luang University		
	China	Kasetsart University	
		King Mongkut's University of Technology Thonburi	
		Panyapiwat Institute of Management	
		Office of the Vocational Education Commission	
		Department of Mechanical Engineering, Faculty of Engineering, Chiang Mai University※	
		Synchrotron Light Research Institute※	
		Department of Electrical and Computer Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok※	
		Taiwan	National Taipei University of Technology
			Dalian University of Technology
		Malaysia	Hohai University
	Zhengzhou University		
	Chongqing Jiaotong University		
	Henan Polytechnic University		
	School of Nuclear Science and Technology University of South China※		
Malaysia	University of Malaya		
	University Technology Malaysia		
	Universiti Sains Malaysia		
	Universiti Teknologi Mara		
	Universiti Kebangsaan Malaysia		
	Universiti Tun Hussein Onn Malaysia		
Universiti Teknikal Malaysia Melaka			
Myanmar	Yangon Technological University		
	University of Information Technology, the Republic of the Union of Myanmar		
Mongolia	Mongolian University of Science and Technology		
Oceania	Australia	Australian Nuclear Science and Technology Organisation	
		Faculty of Science and Engineering, Curtin University※	

Areas	Countries	Partners
Europe	United Kingdom	Department of Electronic Engineering, University of York※
		Power Electronics, Machines and Control Group, University of Nottingham※
	Switzerland	School of Engineering, Zurich University of Applied Sciences
		Power Electronic Systems Laboratory, The Swiss Federal Institute of Technology Zurich※
	Spain	Ecole Polytechnique Federale de Lausanne, Power Electronics Laboratory※
		Universitat Politècnica de Catalunya
		University of Deusto
		Center for Cooperative Research in Biomaterials-CIC BioMaGUNE
	Czech Republic	Mondragon University
		Asociación Centro de Investigación Cooperativa en Nanociencias, CIC nanoGUNE※
		Institute of Physics at Faculty of Mathematics and Physics, Charles University※
	Germany	Institute of Plasma Physics of the Czech Academy of Sciences※
		Technische Universität Darmstadt
		Hochschule Bonn-Rhein-Sieg, University of Applied Science
	Norway	Technische Hochschule Würzburg - Schweinfurt
		German Institute of Rubber Technology※
	Hungary	Faculty of Information Technology and Electrical Engineering, Norwegian University of Science and Technology
		University of Miskolc
	France	Universite Paris-Est Creteil Val de Marne
		Ecole Supérieure d'Ingenieurs en Electrotechnique et Electronique d'Amiens※
		Institute of Research for Ceramics, IRCER, University of Limoges※
		ENSIL-ENSCI, University of Limoges※
	Belgium	University Institute of Technology - Blois University of Tours
Institute of Aerothermal Combustion and Environment, National Center for Scientific Research※		
Poland	Faculty of Applied Engineering, University of Antwerp※	
Romania	AGH University of Science and Technology※	
	Romanian-American University	
	Bucharest University of Economic Studies	
Azerbaijan	Babes-Bolyai University	
	University of Oradea※	
Russian Federation	The Institute of Physics Azerbaijan Academy of Science	
	Far Eastern State Transport University	
North America	Lomonosov Moscow State University	
	United States of America	Physics Department, Coe College※
	Canada	Yoshimura laboratory, Department of Urology, University of Pittsburgh※
Latin America	Chile	The University of Manitoba
		Universidad de Chile
		Universidad Técnica Federico Santa María
		Universidad de Antofagasta
	Venezuela	Universidad Católica del Norte
		Universidad de Concepción
	Mexico	Simon Bolivar University
		Universidad de Guanajuato
		Universidad Michoacana de San Nicolas de Hidalgo
		Instituto Tecnológico y de Estudios Superiores de Monterrey
Middle East	Turkey	Universidad Autónoma de Nuevo Leon
		Universidad de Monterrey
		Universidad Regiomontana
		Universidad Autónoma de Ciudad Juárez
Africa	South Africa	Universidad Autónoma de Sinaloa※
		Ondokuz Mayıs University※
		Tshwane University of Technology

※ Academic Exchange with specific department of research laboratories at foreign institutions

Support for International Students

Student Life support

NUT provides international students with furnished dormitories (capacity is about 150). For those who choose to reside in private housing, the university provides support with a Guarantor Program.



30th Anniversary Student House



Japanese Class

Academic Life support

NUT assigns a tutor (usually a master-level Japanese student) to every international student admitted for the period of the initial three months to assist them in their studies and life. NUT runs a variety of Japanese classes for international students to learn Japanese language and culture suited for their needs and language proficiency level.

One of NUT's education policies is to prepare international students in practical Japanese language where possible. Toward this goal NUT has developed fundamental engineering textbooks in "Plain Japanese" and compiled engineering dictionaries for international students. In the following eight languages, Vietnamese, Mongolian, Thai, Chinese, Korean, Malay, Indonesian and Spanish.



Multilingual engineering terminology dictionaries.



International Student House(for women)



Original textbooks in "Plain Japanese"



Life@NUT

Nagaoka is a city full of many attractions, including exquisite cuisine, natural beauty throughout the four seasons, and world-class cultural heritage. Above all, the greatest charm lies in the warm-hearted people that support the city.

Every summer, the Nagaoka Matsuri Grand Fireworks Festival attracts over 1 million spectators from all over Japan. On the eve of the festival, a folk dance parade is held in which many students participate while wearing matching traditional yukata garments. In the winter, the city becomes blanketed in pure snow.

NUT is located on a hill overlooking Nagaoka city, where

students and staff from throughout Japan gather in a tranquil campus.



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