

# FY2021 Inter-University Exchange Project Nagasaki University

Support for promoting the establishment of Asian Higher Education Community

## 【Name of project】(Adopted year: FY2021, (Type A①))

Asia Intercollegiate Cooperative Project for Nurturing Global Leaders in Sustainable Infrastructure Development

## 【Summary of Inter-University Exchange Projects】

The main objectives of this project are: 1) Nurturing leaders who can play active international role by supporting the technology development of sustainable infrastructure that matches the needs of each Asian country, 2) Establishing an educational system that can be expanded in a ripple effect throughout ASEAN countries, and 3) Establishing educational support systems to foster young engineers, besides to highly specialized master's and doctoral programs.

## 【Summary of Exchange Program】

This project consists of 3 exchange programs and 2 support systems to train and educate young engineers:

- **Double Degree Programs** for **Master's and Doctoral Courses** among **Japan, China, and Korea**.
- **Hybrid Short-Term Exchange Programs** (3 months) that combine online and study abroad at universities in Japan, China, and Korea, as well as several ASEAN countries.
- **Expanded Short-Term Exchange Programs** between any of the universities in Japan, China, and Korea from one side, and universities in ASEAN countries on the other side.
- Establishment of the **"International Collaboration Laboratory"** in order to continuously promote joint research, international co-authored papers, and human resource development projects.
- **"Campus Asia" Alumni Association** will be main platform for providing and exchanging information between graduates and international students regarding overseas internships, etc.

## 【Global Human Resource on the Project】

- Capable of playing an active role internationally to support the sustainable development and maintenance of infrastructure and facilities which meet the needs of each country in Asia.
- Can flexibly adopt the latest technologies and ideas in order to contribute to the development of infrastructure technology from a leadership position.
- Can understand other ethnic groups and cultures in order to be able to jointly plan and implement an international projects.
- Able of to sustainably develop on their own initiative the community formed by "Campus Asia".

## 【Feature on the project】

The goals are: to provide exchange programs aiming to cultivate the skills and qualities required for infrastructure engineers at each stage of economic development to more than 160 students who are potential future leaders from Japan, China, Korea, and ASEAN countries; and to form a basic community around the alumni association and develop into voluntary and sustainable activities. One of the features of this project is that each university will cooperate closely with each other to drive an attractive exchange program with quality assurance through a clear division of roles. This project is an initiative that will lead to the flexible and continuous development of exchanges, from a short-term exchange with credit transfer to a long-term exchange where students can earn two degrees, as well as online exchanges. The expected results are very promising.

## 【Exchange Number】

		2021	2022	2023	2024	2025
Out bound	Students studying abroad	0	3	2	4	3
	Students taking online international education and exchange programs in their home countries	0	0	0	0	0
	Students fulfilling both of the above requirements	0	5	8	8	8
In bound	Students studying abroad	1	4	5	5	6
	Students taking online international education and exchange programs in their home countries	0	0	0	0	0
	Students fulfilling both of the above requirements	0	12	20	20	20

# 1. FY2021 Progress

## 【Asia Intercollegiate Cooperative Project for Nurturing Global Leaders in Sustainable Infrastructure Development】(Adopted Year: FY2021)

### ■ Exchange Programs

Academic exchange agreements and memorandums of understanding on student exchange, which will form the basis of the exchange program, were signed. Cooperation system between the partner universities was established. In addition, through the implementation of a trial dispatch and acceptance of exchange students, program's issues and challenges were sorted out, and preparations were made for full-scale exchange starting from the academic year 2022.



<1st Consortium Meeting>



<Japan-China-Korea Online Student Program>

	2021	
	Planned	Actual
Outbound Students	0	6
Inbound Students	1	24

### Student-Mobility

#### ○ Outbound

From February to March 2022, six students from the Graduate School of Engineering at Nagasaki Univ. participated in the Japan-China-Korea (JCK) online student exchange program. This pilot online program was implemented on a trial basis, and we were able to sort out difficulties and issues of the online program. In addition, the students were able to experience the culture and history as well as learn about the current state of infrastructure in each country, and are expected to participate in various future planned programs of the project.

#### ○ Inbound

The JCK Double Degree Program (DDP) for doctoral students was scheduled to start accepting students in academic year 2022, but we were able to accept one doctoral DDP student from Shandong University in academic year 2021, six months earlier than originally planned. Although the student has not yet been able to come to Japan due to entry restrictions caused by the COVID-19 pandemic, his advisor has been preparing his research plan and providing research guidance through an online system. In addition, from February to March 2022, 17 students from Shandong University in China and 6 students from Sungkyunkwan University in Korea participated in the JCK Online Student Exchange Program as an implementation trial of the hybrid-type short-term exchange program.

### ■ Forming the University Network with Quality Assurance

Under the consortium meeting for infrastructure human resource development, the "Education Quality Assurance Evaluation Committee" was established. In addition, aiming for smooth operation and management of this grant project, as an implementation system, steering sub-committees were established for each of: DDP, Hybrid Short-Term Exchange Program, and ASEAN Extended Short-Term Exchange Program. The clear division of roles will drive attractive exchange programs with assured quality. On March 24, 2022, the first general meeting for the establishment of the consortium for infrastructure human resource development was held online, bringing together all parties concerned from the five universities in Japan, China, Korea, Singapore, and Laos. In this meeting, participants shared a common understanding regarding the strengthening of the cooperative framework for the next academic year and beyond and how to smoothly manage the project in the future. Academic exchange agreements and memorandums of understanding on student exchange were signed between the universities.

### ■ Promotion of Student-Mobility Environment

The system for dispatching and receiving students has been established to ensure that inbound and outbound exchange students can study with peace of mind by utilizing the results of past programs. Application forms, student exchange schedules, and details of student support provided by each university, etc. are checked and shared on the website and among the universities. In addition, by hiring administrative staff fluent in Chinese, Korean, and English, a system was established to provide assistance to inbound students during their stay in Japan and to dispatched students before, during, and after their trip abroad. Furthermore, by holding on-campus orientation sessions regarding the dispatch of Japanese students, students were able to confirm in advance details such as: the schedule for the dispatch, deadlines for application submission, and financial support from both universities for Nagasaki University students (scholarship amount, housing provision, etc.), enabling them to make a decision on short-term study abroad confidently.

### ■ Internationalization of University, Information Disclosure and Publication of Outcome

By the end of March 2022, a dedicated website (in English and Japanese), an introductory video (in English and Japanese), pamphlet (in Japanese), and a logo mark were created to provide information on the project and disseminate its results both domestically and internationally. Information on the project was also made available to the public in multiple languages and through other tools according to the intended purpose. Through each tool, information was provided and disclosed on: purpose and outline of the project, introduction of each university, basic information on the student exchange programs, details of financial aid, information on entrance examinations, credit recognition, graduation eligibility requirements, life and education after admission, etc., leading to widely promoting the project and strengthening Nagasaki University's ability to disseminate information. Efforts were made to disseminate the project results not only within Nagasaki University, but also to related parties at other universities and companies, etc. Moreover, it became possible to provide students who are interested in studying abroad with a clear image of what life as an international student abroad would be like.

### ■ Good Practices, etc.

At the first steering committee meeting of the infrastructure human resource development consortium, new "Agreements on the Asia Intercollegiate Cooperative Project for Nurturing Global Leaders in Sustainable Infrastructure Development" were signed between the three universities. Nagasaki University's Graduate School of Engineering, and both of Shandong University's School of Civil Engineering, School of Qilu Transportation, and School of Environmental Science and Engineering, and Sungkyunkwan University's School of Civil, Architectural and Environmental Engineering. Based on these agreements, Memorandums of Understanding for student exchange agreement were also concluded at the same time. We also confirmed action plans toward the conclusion of agreements among the five universities (by adding Nanyang Technological University of Singapore and National University of Laos) from the next academic year onward. Additionally, by holding inter-university working-level round table meetings (for each subcommittee), we were able to exchange opinions and discuss the details of future program implementation. Also, we were able to confirm the implementation plan and organization, and to have better communication and mutual understanding in order to ensure smooth project execution. In the first year, the "JCK Online Student Exchange Program" was implemented on a trial basis, with a total of 29 students participated from the three universities. Travel restrictions caused by the COVID-19 pandemic prevented in-person participation, however, we were able to organize the online student exchange program, and to understand various issues related to online programs to be held next year.