

# Inter-University Exchange Project (Selected in FY2016) Tokyo University of Marine Science and Technology Project Overview

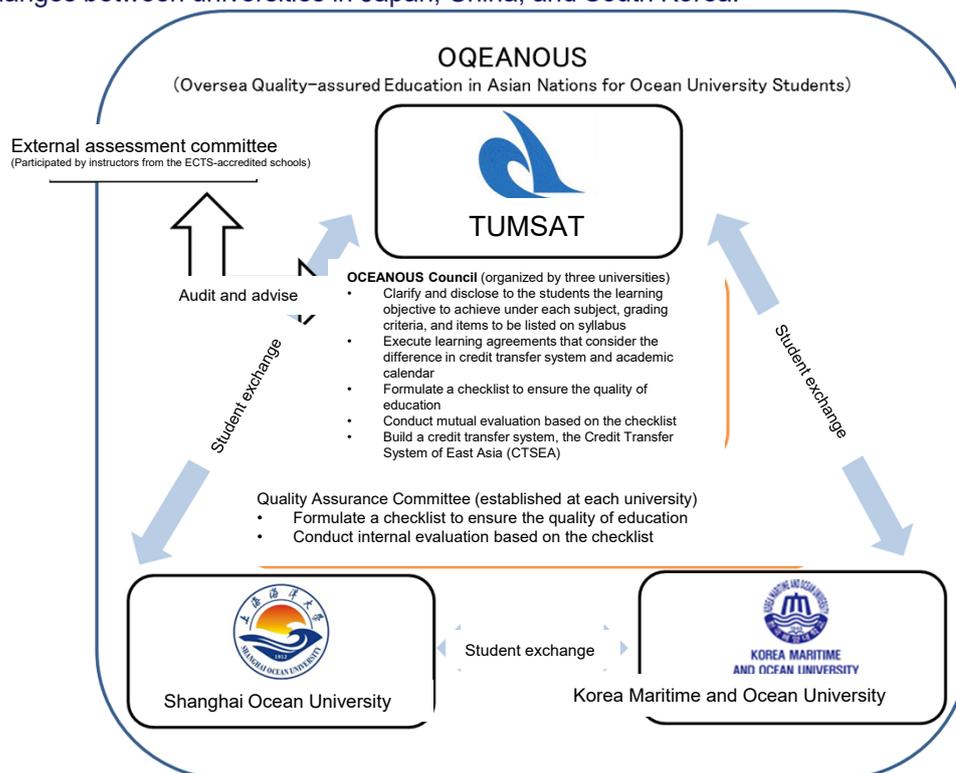
Support for the Formation of Collaborative Programs with Universities in Asia

[Name of the Project] (Year selected: FY2016 (Type A-2) CAMPUS Asia )

Collaborative international education program based on the Japan-China-South Korea version of the Erasmus at Tokyo University of Marine Science and Technology (TUMSAT)

## [Overview of the Project]

By enabling student exchange at the graduate school level while assuring the same quality as the internationally-recognized credit transfer system (the Bologna Process), develop advanced expert professionals at TUMSAT and promote exchanges between universities in Japan, China, and South Korea.



## [Overview of the Exchange Program]

An STP (research internship program) is established as a program to send college seniors who are planning to advance to a master's program to overseas for one month so that they can obtain credits by taking available graduate courses in advance, conduct research, and complete a short-term internship at the destination university. In addition, as this application's central program for students in the master's program, an IJP (collaborative international education program in the field of oceanography) and a DDP (joint degree program in the field of oceanography) are established.

With the IJP, a student will stay at a participating school other than his/her own for one semester or more based on the quality-assured credit transfer system to be worked in this application. During the stay, he/she is required to obtain six credits or more in the designated courses at the destination university and complete a long-term internship.

As for the DDP, a student will stay more than one year at his/her university as well as at other participating university. By conducting a master's thesis research and meeting the degree criteria at both universities, he/she can obtain a master's degree from both universities.

## [Human resources to be developed in this project]

For the sustainable development and utilization of the ocean, we need individuals to make environmentally strategic decisions based on long-term views as independent professionals with a wide range of expertise to solve such problems. Through interdisciplinary curriculums conducted in the Japan-China-South Korea program and course offering and internships that are quality-assured by the credit transfer system which is to be newly developed, this program will enhance students' original, creative thinking abilities and fundamental research skills in the specialized field and develop highly-skilled international professionals who are capable of considering various approaches in the actual work and link advanced expertise to problem-solving.

## [Planned Number of Exchange Students]

	2016	2017	2018	2019	2020
Acceptance in Japan (J)	C2	C5	C5	C5	C5
	K1	K5	K5	K5	K5
Acceptance in China (C)	J2	J5	J5	J5	J5
	K1	K5	K5	K5	K5
Acceptance in South Korea (K)	J1	J5	J5	J5	J5
	C2	C5	C5	C5	C5

# 1. Progress with the Project Initiative (FY2016)

[TUMSAT]

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## ■ Progress with the implementation of exchange programs



(Lab tour: Experiment in removing the otoliths of squid at Shanghai Ocean University)



(Experiencing Chinese class at Shanghai Ocean University)



(TUMSAT Museum of Marine Science toured by Korea Maritime and Ocean University)

## Student Mobility under the Exchange Program

### ○ Placing Japanese students

8 students were sent to Shanghai Ocean University from March 21 (Tue) to March 23 (Thurs), 2017. To encourage the participants in this short-term placement program to participate in the DDP and IJP, they were allowed to visit the campus, interact with other students, and visit labs at the university, as well as experience local culture and study Chinese culture to improve cross-cultural communication through hands-on learning.

### ○ Accepting international students

9 graduate students from Korea Maritime and Ocean University visited our university from February 8 (Wed) to February 10 (Fri), 2017 and split to each campus based on the field of choice to take a mock Japanese class, see the wave tank and flowave tank, and visited labs.

	2016
Acceptance in Japan (J)	C0 K9
Acceptance in China (C)	J8 K5
Acceptance in South Korea (K)	J0 C0

## ■ Initiative to create a framework for quality-assured inter-university exchange

- The OQEAOUNS Council (renamed from the planned "Erasmus Council"), which was established with faculties and administrative staff in charge of academic affairs at three universities including in Japan, China, and South Korea, was held two times in FY2016 (three times including the preparatory meetings). Referencing the method in the Erasmus Programme in Europe, the council discussed about a standardized credit transfer system that maintains the independence of each country's graduate school education, grading criteria, specific programs (STP, IJP, and DDP), etc.
- Faculty and staff members who are familiar with the ECTS (a credit transfer system for the European countries) were invited from Ege University, an ECTS accredited school in Turkey. After getting an overview of the ECTS and explanations on their initiatives at Ege University, a roundtable discussion was held.
- In order to interview about ECTS initiatives, we visited the University of Nord in Norway. After getting an overview of the ECTS and explanations as to why the University of Nord obtained the ECTS accreditation and what initiatives are currently underway, a roundtable discussion was held.



<Roundtable discussion with universities such as Ege University>

## ■ Establishment of environment to accept international students and send Japanese students

- The OQEAOUNS Council had a discussion about matters such as financial support and dormitory offerings at each university in preparation for placing and accepting Japanese students under this project.
- In preparation for the mutual implementation for placement and acceptance in this project, students who are interested in participating in this project were sent and accepted to the destination university in March 2017 to conduct mutual visits and provide information on the university for the students.
- Considerable administrative reforms were implemented in order to strengthen the support system for this project. Specifically, in addition to the new establishment of an international and teaching support section in the Academic Affairs Department and the assignment of specialized personnel in April 2017, a guideline for establishing an international exchange promotion office was formulated. Through this, a system was established to allow international affairs and international student-related affairs to be handled centrally.

## ■ State of globalization, information disclosure, and communication of the outcome of the university based on the implementation of the project

Brochures were created and distributed on and off campus for (Japanese) students at our university in order to communicate the benefits of this project and increase participants. Brochures will be distributed ongoing basis in the future at other events such as open campus to thoroughly communicate about this project.

A course catalog website for the central courses for this project will also be created to provide extensive information to exceed the contents of ECTS. (<https://www.g2.kaiyodai.ac.jp/oqeanous/>)

## ■ Best practice, etc.

In this project, a guideline was created for the Credit Transfer System in East Asia (CTSEA), which is a credit transfer system among three universities. Along with it, a scheme to execute a learning agreement with each student will be implemented. All of these information will be released on the university's website and, based on the results of this program, we will aim to expand the system in the future to other universities in Japan, China, and South Korea and develop it into student exchange with ECTS-accredited and ACTS-accredited schools.

## 2. FY2017 Progress

Tokyo University of Marine Science and Technology [TUMSAT]

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Collaborative international education program based on the Japan-China-South Korea version of the Erasmus at TUMSAT

### Implementation Status of the Exchange Program



Meetings in advance of embarking on the International Joint Program (IJP) at Korea Maritime and Ocean University



Observation tour of Bright Dairy & Food Co.,Ltd. on Summer School in Shanghai



Laboratory tour on Short-term visit program at Korea Maritime and Ocean University

### Student Mobility in the Exchange Program

#### Placement of Japanese University Students

•The OQEANOUS Summer School 2017 on the theme of the "Use of the Oceans and Marine Resources for Sustainable Development" was held at Shanghai Ocean University from July 15 to 26, 2017. The Summer School was attended by 7 TUMSAT graduate students and 2 fourth-year undergraduate students. Here, alongside students from other universities, they attended lectures, delivered presentations, and engaged in vigorous discussion in classes conducted by faculty in a variety of disciplines dispatched by Korea Maritime and Ocean University, Shanghai Ocean University, as well as TUMSAT.

•As part of the OQEANOUS short-term visit program, 1 TUMSAT graduate student and 8 fourth-year undergraduate students visited Korea Maritime and Ocean University on August 24th and 25th, 2017, and 2 TUMSAT graduate students and 7 undergraduate students followed from March 6 to 9, 2018. In order to link the participation in this short-term visit program to the participation in the DDP and IJP programs, as well as touring the local campus and the training ship Handaba at Korea Maritime and Ocean University and interacting with other students, after a tour of the laboratories, they conducted hands-on research in laboratories relating to their own fields of interest.

•From September 2017 to February 2018, 1 undergraduate student was sent to Korea Maritime and Ocean University as a part of the first cohort of the IJP.

•From March 12 to 15, 2018, the OQEANOUS short-term visit program for 2017 was held at Shanghai Ocean University, where TUMSAT's delegation consisted of 2 graduate students and 9 undergraduate students. In order to link the participation in this short-term visit program to the participation in the DDP and IJP programs, students toured the campus and laboratories at Shanghai Ocean University and conducted hands-on laboratory research.

#### Acceptance of International Students

•2 graduate students at Korea Maritime and Ocean University were accepted to study as part of the first cohort of the IJP from October 2017 to March 2018.

•1 graduate student at Korea Maritime and Ocean University and 2 graduate students at Shanghai Ocean University were accepted as part of the first cohort of the DDP from October 2017 to September 2018.

	2017
Acceptances in Japan (J)	C 2 K 3
Acceptances in China (C)	J 20 K 9
Acceptances in South Korea (K)	J 19 C 6

Short-term visitors except on the regular program are partially included in the table.

### Efforts to Create a Framework for Inter-University Exchange Associated with Quality Assurance

Building on efforts from last fiscal year, to facilitate the smooth implementation of this project, the OQEANOUS meeting was convened two times to share information about problem areas and current situations. In addition, we concluded agreements on Double Degrees and Student and Credit Transfers and formulated guidelines for the Credit Transfer System in East Asia (CTSEA), a unified standard for credit transfer system that maintains the unique character of graduate education in Japan, China, and South Korea. Furthermore, with the aim of carrying out future student exchange in OQEANOUS more smoothly, a total of two Round Table Symposiums were held at TUMSAT and the Korea Maritime and Ocean University to further mutual understanding concerning matters of educational and research interest among faculty members at each university.



Conclusion of a Double Degree Agreement and Agreement Relating to Credit Transfer Among Maritime Universities @ TUMSAT

### Establishing an Environment Conducive to the Placement of Japanese Students and the Acceptance of International Students in Japan

To steadily accomplish the strategies worked out by the International Exchange Promotion Office, we have newly established Global Education and Research Office with the aim of improving the efficiency of information sharing for procedures relating to international students and procedures relating to international matters. This project is mainly being implemented under the aegis of the Global Project Promotion Division of this Center.

Provision of scholarships and accommodation for students placed overseas and accepted in Japan have been incorporated into the agreement for this project and are being steadily implemented in keeping with this agreement. After efforts have been made to share specific contents among the three universities at the meeting, these are disseminated in student application guidelines, web sites, and other media.

### Status of University Internationalization, Information Disclosure, and the Dissemination of Results associated with the implementation of the project

As well as circulating pamphlets relating to this project to new students at the time of orientation, we have now held three explanation sessions for Japanese students. Moreover, having completed a dedicated web site for disclosing details of the project, we are also posting information about the latest events and news online. Regarding student recruitment, as well as providing information not only by taking advantage of this web site but also through e-mails distributed to students, individual consultation is also available for prospective applicants. We have also posted the course catalog that constitutes the core of the European Credit Transfer System (ECTS) being aimed for by this project, are engaged in providing accepted students with information about the details of courses and subjects, and have furthermore put in place a system whereby participating students can easily obtain forms such as those for the CTSEA and Learning Agreement from the web site (<https://www.g2.kaiyodai.ac.jp/oqeanous/>).

### Good Practices, etc.

With a view to assuring the quality of education, we created a CTSEA Survey Form for objectively carrying out the evaluation of this program, and shared details on how to implement this survey among the three universities. Also, after carrying out this survey with the first cohort of students, we summarized and analyzed the results. From now on, we plan to share these results among the three universities and, while working to understand and improve any problem areas, link them to quality assurance. In the future, we aim to increase the number of subjects covered by the survey to approach even more reliable quality assurance, and to expand to student exchanges with ECTS and ACTS-accredited schools.