Application for Graduate School Doctoral Course

# **Doctoral Course**

(Admission for only those who plan to proceed to the Doctoral Course after completing the Master's Course at the TUMSAT)

October 2023

and

April 2024



Admission Information and Application

Graduate School of Marine Science and Technology Tokyo University of Marine Science and Technology



# Welcome to the Tokyo University of Marine Science and Technology - TUMSAT

# Doctoral Courses for International Students

TUMSAT offers the following two Doctoral degree course programs for international students. Graduates are awarded either a Doctor of Marine Science degree or a Doctor of Engineering degree from TUMSAT.

Doctoral Course:

- 1. Course of Applied Marine Biosciences
- 2. Course of Applied Marine Environmental Studies

The programs specialize in the following study areas:

Course of Applied Marine Biosciences

- 1) Applied Bioscience
- 2) Advanced Food Science and Technology
- 3) Applied Bio-engineering

Course of Applied Marine Environmental Studies

- 1) Marine Ecosystem Studies
- 2) Ocean Science and Technology
- 3) Applied Ocean Engineering
- 4) Marine Safety Technology
- 5) Logistics Engineering
- 6) Marine Machinery and Systems
- 7) Industrial Policy and Culture
- 8) Marine Exploring and Utilization

# $\ll$ Security export control $\gg$

Pursuant to the Foreign Exchange and Foreign Trade Actin Japan, "TUMSAT Regulations for Security Export Control" is stipulated. Strict control with respect to transfer of technology and cargo export is required in admission screening of international students.

In caseregulated items or transactions are applicable, your designated research activities and education programs may be limited.

Please be aware of such restrictions and consult a prospective supervisor before applying.

For more information on security export control, please refer to "Security Export Control" on the METI website.

https://www.meti.go.jp/policy/anpo/englishpage.html

# $\ll$ Important Notices $\gg$

Please check the latest information on our website and apply after understanding the possibility of changes.

# OAdmission policy

# Doctoral Course:

In the doctoral course of the Graduate School of Marine Science and Technology, we seek students who can flexibly respond to the times and society and creatively confront various global-scale issues related to the oceans in order to solve them, and who have the drive and capability to pioneer leading-edge areas in the marine field and the fields of its related industries.

# Course of Applied Marine Biosciences:

We seek students who aim for solutions to various issues pertaining to applied bioscience, such as living marine resources and food resources, and furthermore the conservation and sustainable utilization of same, who are interested in research into the elucidation of the functionality of these or the elucidation or utilization of the characteristics and processes of biological activities, and who also have the drive to set themes pertaining to them by themselves and to be able to develop solutions and applications.

# Course of Applied Marine Environmental Studies:

We seek students who have the ability to arrive at solutions to issues by means of addressing them using multilateral thinking, with regard to state-of-the-art science and technology pertaining to technologies for the investigation and conservation/restoration of marine environments and the highly efficient use of logistics and energy in marine transportation and harbors, from the viewpoint of understanding, conserving and using the oceans.

## 1. Number of Places Available

•For enrollment in October 2023

Course	No. of places
Course of Applied Marine Biosciences	Some
Course of Applied Marine Environmental Studies	Some

#### •For enrollment in April 2024

Course	No. of places
Course of Applied Marine Biosciences	19
Course of Applied Marine Environmental Studies	21

Note: The number of places indicates the total maximum number of students that will be admitted to the course, including those proceeding to the course from a Master's Course undertaken at the University as well as those admitted by passing the general admission, the admission for international students, and the special admission for full-time employees.

#### 2. Admission Requirements

Only those who are enrolled in the Master's Course at the Tokyo University of Marine Science and Technology (Graduate School of Marine Science and Technology) and who meet both of the following two requirements can apply for the examination.

It is also a requirement for the application to contact the instructor to be instructed before applying and to obtain the consent of the instructor to take the examination.

- (1) Plan to proceed to the Doctoral Course after completing the Master's Course at the University
- (2) Are expected to obtain a Master's degree in September 2023 for enrollment in the Doctoral Course in October 2023, and in March 2024 for enrollment in the Doctoral Course in April 2024.

# \*There is a possibility that the Admission schedule and Examination Method will be changed.

## 3. Application period

June 16, 2023 (Friday) - June 21, 2023 (Wednesday) 16:30

Notes on application

- (1) After the application is completed, application contents cannot be changed.
- (2) If the application contents are not true, you cannot take the examination. In addition, even after announcing successful applicants or after enrollment, we may cancel or cancel enrollment.
- ◆Inquiries about This Web Site and Its Operation
   Learning and Education Application Service Support Center
   ( Operating company : Disco Inc. )
   E-Mail: cvs-web@disc.co.jp
- ◆Contact information for entrance examination ◆ Tokyo University of Marine Science and Technology Admissions Section II of the Admissions Division 4-5-7 Konan, Minato-ku, Tokyo 108-8477, Japan E-mail: n-nyusi2@o.kaiyodai.ac.jp (Office hours: Monday to Friday, 9:00 a.m. to 12:00 p.m. and 1:00 p.m. to 5:00 p.m)

Internet Application System Login It is necessary to log in to the Internet application system to print the required documents, and print Applicant's ID Card for examination. To log in, access the login screen from the application site and enter the "Email address" and "Password" registered in your My Page.

# 4. Application procedure

<u>Please be sure to contact a prospective supervisor before applying and get approval for the</u> <u>examination.</u> For documents, the sign of your prospective supervisor is not needed. At a <u>Later, Tokyo University of Marine Science and Technology makes the confirmation of</u> <u>approval to the supervisors. (\*Please see the list of supervisor.)</u>

		Please be sure to check before applying for the	
PROCESS 1	Advance preparation	Internet.	
	$\Downarrow$		
PROCESS 2 Internet application registration		Please access the Internet application system from the University website using a personal computer, etc., and enter and register the necessary items. In addition, please upload the required application documents. June 13, 2023 (Tuesday) 10:00 -June 21, 2023 (Wednesday) 16:30	
	$\Downarrow$		
PROCESS 3 Printing of Applicant's ID Card for examination		If your application has been accepted, you can print an Applicant's ID Card for examination from the Internet application system after the application period. Each applicant must print out the Applicant's ID Card for examination and bring it on the day of the examination.	

# PROCESS 1 Advance preparation

# (1) PC operating environment

#### <Browser>

- $\cdot \ {\rm Microsoft} \ {\rm Edge} \ \ ({\rm Latest} \ {\rm edition})$
- $\bullet \ {\rm Google \ Chrome} \quad ({\rm Latest \ edition})$
- Mozilla Firefox (Latest edition)
- ${\boldsymbol{\cdot}}$  Apple Safari 8 or later
- \* If you use the tab function of the browser to perform the application operation simultaneously on multiple tabs, the selected content may be handed over to other tabs and other issues may occur. Please refrain from simultaneously operating the application in multiple tabs.
- \* Smartphones and tablet terminals are deprecated.

%For the latest version, launch each browser and check by accessing the following URL.

- $\cdot \operatorname{Microsoft} \operatorname{Edge} \ \Rightarrow \ \operatorname{edge://settings/help}$
- $\cdot \text{ Mozilla Firefox} \Rightarrow \text{ https://support.mozilla.org/ja/kb/find-what-version-firefox-you-are-using}$

#### (2) Preparation of printer, paper, etc.

The forms must be printed on A4 size plain paper, so please prepare a printer and printing paper (plain paper, PPC paper, OA paper, copy paper, etc.). As long as the printing conditions are met, you can print using the printing service of public facilities or convenience stores, but please be careful when handling personal information.

#### (3) E-mail address preparation and e-mail reception setting

An e-mail address is required for application, so please prepare an e-mail address in advance. E-mail addresses for smartphones and mobile phones are also available. In addition, if you have set the domain specified reception, please add the settings so that you can receive mail from the following domains.

#### @e-apply.jp

#### @o.kaiyodai.ac.jp

When Application registration and other procedures, an email will be sent to the email address registered on your My Page.

\* Once registered, the email address cannot be changed.

#### (4) Preparation of personal photo data

The photograph will be used for identity verification, so please prepare color photograph data of the front, upper body, without a hat, and without the background photographed within 3 months before application. (.jpeg.jpg.png.bmp ) (File size up to 2MB)

\* Examples of photos that cannot be used

Blurred, dark background, face turned sideways, multiple people appear, processed image, rephotographed developed photo, etc.

#### (5) Download the prescribed format

Download the prescribed form (published on the University's website on Early May 2023), prepare the contents of the forms and convert them to PDF files (Summary of Master's thesis and Research Plan). At the stage of PROCESS 2(3), upload these documents. (%Please convert the file separately for each document and name the file.)

For Application form, prepare the contents refer to the PDF sample. At the stage of PROCESS 2(2), register contents of the Application form.

#### (6) Application for password for exemption from examination fee

If you apply for a doctoral program at a graduate school (Admission for only those who plan to proceed to the Doctoral Course after completing the Master's Course at the TUMSAT), you will not pay the examination fee. If you wish to make such a selection, please apply for the password for exemption from examination fee to the Admissions Division (n-nyusi2@o.kaiyodai.ac.jp) by email by Friday, June 9, 2023.

Please include your student ID number, name, and major in the email

#### PROCESS 2 Internet application registration

#### (1) Access the Internet application site

Please access the Internet application site from the University website.

(https://www.kaiyodai.ac.jp/)

If this is your first time to apply online, please click the "Register My Page" button to register your My Page.

If you have registered on your My Page, please click the "Carry out the application procedure" button to access the online application page.

The "e-mail address" of the applicant's contact information will be used for contacting, so please enter an e-mail address that University can certainly contact the applicant.

#### (2) Application registration

Register applicant information, application qualification information, etc. along the input screen. In addition, please enter the password for exemption from examination fee.

- \*Please enter the name of your prospective supervisor with whom you have contacted in advance and obtained approval to take the examination.
- \*The "telephone number" of the applicant's contact information will be used for contacting, so please enter a telephone number that University can certainly contact the applicant.
- \* Please enter the domestic address for the address for shipping label. This is the mailing address that University send documents, so please enter the address where you can receive the documents without fail.

\* Upload your face photo data here. You can also cut (crop) the photo size on the screen.

#### (3) Upload application documents

Please convert the following documents to PDF files and upload them on the application site. (Please give each file a name.)

Documents	Remarks	
①Summary of Master's thesis	350-word English-language summary of the research conducted in your Master's course (or 1,000 characters in Japanese) written on A4-size paper. Please include the name of the Course applied for and the applicant's name.	
②Research Plan	In around 700 words in English or 2,000 characters in Japanese, describe the research you wish to undertake for your Doctoral Course in consultation with your supervisor. Use the prescribed form.	

\* 1 If the submitted documents are incomplete, they will not be accepted. No changes or additions to the application documents after acceptance are permitted.

\* 2 For documents that are not in Japanese or English, a Japanese or English translation of the document must be attached.

\* 3 Once accepted, application documents cannot be returned for any reason.

\* 4 If the application contents are not true, you cannot take the examination. In addition, even after announcing successful applicants or after enrollment, we may cancel or cancel enrollment.

\* 5 Tokyo University of Marine Science and Technology manage the above personal information responsibly.

#### (4) Confirmation of application details

When the input is completed, a confirmation screen for the input content is displayed. Display the Application Form sample and check if there are any deficiencies in the content. Check the contents carefully, and if there is no error, click the "To register in this content " button.

#### (5) Registration completed

The "Reception number" is displayed on the screen when the entry is completed. A registration completion email will be sent to the registered email address. The receipt number written in the e-mail will be used for confirmation of application contents, etc. Please keep it in a safe place until the end of the entrance examination.\* "Reception number" is not an examination number. The examination number will be written on the "Applicant's ID Card" issued after the application period.

[Notes on Internet application]

- After the Internet application registration is completed, the registered contents cannot be modified or changed, so be careful not to make a mistake.
- Face photo data may be resubmitted if it is judged to be inappropriate as an application photo.

PROCESS 3	Printing of Applicant's ID Card for examination
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Please log in to the Internet application system and print out your Applicant's ID Card during the period in which the Applicant's ID Card can be printed. Please note that the Applicant's ID Card will not be sent from the University, so please print it out on your own. In addition, information such as the examination schedule will be displayed, so please read it carefully.

Date and time when the Applicant's ID Card can be printed

: Around 13:00 on Wednesday, July 26, 2023

[Notes on the Applicant's ID Card]

- After printing the Applicant's ID Card, be sure to check the contents. If it is different from the registered application or if you can't print, please contact the entrance examination inquiries (Admissions Section II : n-nyusi2@o.kaiyodai.ac.jp) by Wednesday, August 2, 2023.
- The "Reception number" displayed in PROCESS 2 is not the examination number. On the day of the examination, you will not be able to take the exam with your "Reception number".
- On the day of the examination, the Applicant's ID Card displayed on a smartphone etc. screen is not allowed. Be sure to bring a printed Applicant's ID Card.

# \*There is a possibility that the Admission schedule and Examination Method will be changed.

# 5. Examination Method

Applicants are evaluated on the basis of an oral examination of academic abilities, during which applicants will also be asked to make presentations about the submitted documents (summary of their Master's thesis and others).

(1) Examination Subjects

Course		Oral Examination	
i)	Applied Marine Biosciences	Including making a presentation on the applicant's	
ii)	Applied Marine Environmental	Master's thesis, etc.	
	Studies		

(2) Date and Place of Examination

	Oral Examination	Testing room, etc.
Date and Place	August 17, 2023 (Thursday) the time specified for the course As shown above or the date and time specified for the course (sometime between August 9 and August 16)	Shinagawa Campus or Etchujima Campus

# 6. Enrollment Date

· October 1, 2023 (Sunday) or April 1, 2024 (Monday).

# 7. Enrollment Procedures

• For enrollment in October 2023 : From September 8, (Friday) to September 19, 2023 (Tuesday)

• For enrollment in April 2024 : From March 5, (Tuesday ) to March 19, 2024 (Tuesday) Details will be mailed together with the notification of acceptance.

#### 8. Notification of Results

The results of the entrance exams for the graduate course will be published online (https://www.kaiyodai.ac.jp) on September 5, 2023(Tuesday) at approximately 10:00 a.m. Successful applicants will also be notified by mail with the necessary forms for admission enclosed. Details of results will not be provided by telephone or other means. We will send a notification of acceptance and documents necessary for admission to the applicant.

#### 9. Admission and Tuition Fees

(1) Entrance examination fee: No	entrance examination fees will be charged.
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(2) Admission fee: No admission fees will be charged.

(3) First semester tuition fee: \$267,900

(Annual tuition fee: ¥535,800)

Note: In the event of any revision to admission or tuition fees, the revised fee will take effect immediately for every student enrolled.

# 10. Cautions

In the event that an applicant who passed the examination does not obtain a Master's degree by the following date, that person will be unable to proceed to the Doctoral Course. [Deadline]

- For enrollment in October 2023: End of September 2023
- For enrollment in April 2024: End of March 2024

# 11. Inquiries

If you have any questions concerning application or admission, please contact:

Admissions Section II of the Admissions Division Graduate School of Marine Science and Technology Tokyo University of Marine Science and Technology 4-5-7 Konan, Minato-ku, Tokyo 108-8477, Japan E-mail: n-nyusi2@o.kaiyodai.ac.jp

#### Prospectus of Supervisor's Field in Doctoral Course Course of Applied Marine Biosciences

Applied Bioscience         Advanced Fish Physiology         \CSNILAKI Goro         goro           Applied Bioscience         Advanced Fish Physiology         \CSNILAKI Goro         yazawa           Advanced Aquatic Pathology         SANO Motohlue         maanoi0           Advanced Aquatic Pathology         SANO Motohlue         maanoi0           Advanced Aquatic Pathology         SANO Motohlue         Haga           Advanced Fish Culture         ENDO Masato         astashi           Advanced Population Biology         NINKA Kyoosuke         Ninwol0           Advanced Population Biology         VIXOSTA Masashi         yokota           Advanced Fish Culture         ENDO Masato         astashi           Advanced Population Biology         VIXOSTA Masashi         yokota           Advanced Fish Depulation Biology         VIXOSTA Masashi         yokota           Advanced Fish Depulation Analysis         KITAKAD Collinor         astashi           Advanced Fish Vistem Technology         SHIODE Diake         shiode           (Cooperated laborator)         Advanced Population Dynamics         YONEZ AKIS Shiroh         #isis           (Cooperated laboratory)         Advanced Population Dynamics         YONEZ AKIS Shiroh         #isis           (Cooperated laboratory)         Advanced Population Dynamics				_	Contact E-mail
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Advanced Aquatic Pathology         SANO Motohiko         manne00           Advanced Aquatic Pathology         KATO Cachi         gkato00           Advanced Aquatic Pathology         KATO Cachi         gkato00           Advanced Aquatic Pathology         KATO Cachi         Ralea           Advanced Fish Culture         SAKAMOTO Stakshi         Ralea           Advanced Population Biology         VTUSTAMANC Galos         carlos           Advanced Population Biology         VTUSTAMANC Galos         carlos           Advanced Population Biology         VTUSTAMASurgudi         namak           Advanced Population Biology         VTUSTAMAsurgudi         namak           Advanced Theory of Fish Population Analysis         NTIAKADO Toshhide         kitakado           Advanced Theory of Fish Population Analysis         NTIAKADO Toshhide         kitakado           Advanced Reproductive and Behavioral Physiology of Fash         MAUGED Disluke         shide           (Cooperated laboratory)         Advanced Reproductive and Behavioral Physiology of Fash         MAURIA         %2           (Cooperated laboratory)         Advanced Population Dynamics         HORI Maskatau         %2           (Cooperated laboratory)         Advanced Population Dynamics         HORI Maskatau         %2           (Cooperated laboratory) <t< td=""><td></td><td>Applied Bioscience</td><td>Advanced Fish Physiology</td><td>YOSHIZAKI Goro</td><td></td></t<>		Applied Bioscience	Advanced Fish Physiology	YOSHIZAKI Goro	
Advanced Aquatic Pathology         KATO Goshi         gkat00           Advanced Aquatic Animal Nutrition and Aqua feed Development         HGA Vitalaa         haga           Advanced Fish Culture         ENDO Mastato         asteroid           Advanced Applied Phycology         NIVM Ayosuce         Iniva00           Advanced Applied Phycology         NIVM Ayosuce         Iniva00           Advanced Population Biology         Yokota         Yokota           Advanced Stock Enhancement Biology         HAMASARI Katsuyuki         hamak           Advanced Stock Enhancement Biology         HAMASARI Katsuyuki         hamak           Advanced Population Biology         DAN Shigiki         idan           Advanced Population Dynamics         KITAKONO Toshilide         Nikado           Advanced Fishing System Technology         SHIODE Dissike         Shiode           Cooperated laboratory         Advanced Population Dynamics         YOKEXAK Shiroin         82           (Cooperated laboratory)         Advanced Population Dynamics         YOKEXAK Shiroin         82           (Cooperated laboratory)         Advanced Population Dynamics         YOKEXAK Shiroin         83           (Cooperated laboratory)         Advanced Population Dynamics         YOKEXAK Shiroin         83           (Cooperated laboratory)         <			Advanced Fish Physiology	YAZAWA Ryosuke	ryazawa
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Advanced Functional Biology of Aquatic Organisms YASUIKE Motoshige %4				-	

#### Prospectus of Supervisor's Field in Doctoral Course Course of Applied Marine Environmental Studies

				Contact E-mail
Course	Fields	Special Subject	Name of Supervisor	Address (@kaiyodai.ac.jp)
	Marine Ecosystem Studies	Advanced Phycology	KAMIYA Mitsunobu	mkamiy0
		Advanced Planktology	KATANO Toshiya	tkatan0
		Advanced Aquatic Biogeochemistry	HASHIHAMA Fuminori	f-hashi
		Advanced Aquatic Elemental Chemistry	TAKAHASHI Miho	mihotnk
		Aquatic Ecochemistry	KAMIO Michiya	mkamio
		Advanced Marine Biochemistry	OKAI Masahiko	mokaio1
		Advanced Application of Biological Function	ENDO Hideaki	endo
		Advanced Chemical Oceanography	KAWAI Michiyo	michiyo
		Advanced Chemical Oceanography Advanced Chemical Oceanography	HASHIHAMA Fuminori	f-hashi
		Advanced Organic Geochemistry	YAMANAKA Toshiro	t.yamanaka
		Seafloor Hydrothermal Systems	DEKOV Vesselin M	vdekov0
		Advanced Fish Biology	MOTEKI Masato	masato
		Advanced Invertebrate Biology	KON Koetsu	kon
		Advanced Population Ecology	SUZUKI Naoki	naoki
	Ocean Science and Technology	Physical Oceanography	KITADE Yujiro	ykitade
	ocean science and recimology	Physical Oceanography Physical Oceanography	MIZOBATA Kohei	mizobata
			SHIMADA Koji	
		Advanced Data Analysis for Ocean Science	,	koji arakawa
		Advanced Seminar in Environment Measurement	ARAKAWA Hisayuki	arakawa
		Advanced Nearshore Environmental Engineering	OKAYASU Akio	okayasu
		Advanced Nearshore Environmental Engineering	INAZU Daisuke	dinazu0
		Advanced Marine and Fishery Mechanics	TODA Masayoshi	toda
		Applied Information System Engineering	MIYAMOTO Yoshinori	miyamoto
		Applied Information System Engineering	UCHIDA Keiichi	kuchida
Applied Marine Environmental		Special Lecture on Mathematical Engineering for Marine		ueno
Studies		Lecture on Statistical Methods for Marine Engineering	KOBASHI Fumiaki	kobashi
Studies		Control System Design	SUYAMA Koichi	suyama
		Advanced Ocean Floor Geoscience	NAKAHIGASHI kazuo	knakah0
		Advanced Marine Geotechnics	TANI Kazuo	ktani00
		Electronic Device Engineering	IDA Tetsuya	tida000
		Ocean Physical and Ecosystem Dynamics	NAGAI Takeyoshi	tnagai
		Environmental Mathematical Analysis	NAKASHIMA Kimie	nkimie
		Advanced Marine Observation System	AMAKASU Kazuo	amakasu
	(Cooperated laboratory)	Advanced Fisheries Enviroment Technology	INOUE Nariaki	<b>※</b> 5
	Applied Ocean Engineering	Intelligent Ocean Robotics	KONDO Hayato	hkondo
		Route Design Engineering	TAMARU Hitoi	tamaru
		Insurance Law of Maritime Safety Risk	KANEOKA Kyoko	kaneoka
		Satellite Positioning System	KUBO Nobuaki	nkubo
		Optimal Guidance and Control of Marine Vehicles	OKAZAKI Tadatsugi	okazaki
		Engineering on Offshore Structure	MASUDA Mitsuhiro	masuda
		Advanced Lecture on Marine Safety Management	MINAMI Kiyokazu	minami
		Man-Machine System	UCHINO Akiko	uchino
		Measuring in Ocean	MURAI Koji	kmurai0
		Knowledge and Information Systems	FURUYA Tadasuke	tfuruya
		Natural Language Processing	UCHIDA Yoko	uchidayo
	Marine Safety Technology	Advanced Lecture on Maritime Transport and Ship Performance	(Undecided)	<b>※</b> 6
	(Cooperated laboratory)	Advanced Marine Safety and Propulsion System Design	(Undecided)	<b>~</b> 0
		Maritime Radio Communication and Surveillance Engineering	YONEMOTO Naruto	<b>※</b> 7
		Maritime Radio Communication and Surveillance Engineering Maritime Radio Communication and Surveillance Engineering		%7 %7

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	Logistics Engineering	Advanced Transportation System Planning	HYODO Tetsuro	hyodo 
		Advanced Supply Chain Optimization	KUBO Mikio	kubo
		Physical Distribution Engineering	KUROKAWA Hisayuki	kurokawa
		Advanced Algorithms for Logistics	HASHIMOTO Hideki	hhashi0
		Advanced Applied Analysis	TAKENAWA Tomoyuki	takenawa
		Advanced Mathematical Informatics	SEKIGUCHI Yoshiyuki	yoshi-s
		Advanced Spatial Information Engineering	WATANABE Daisuke	daisuke
		Industrial Organization and Policy in Transport Sector	ENDO Nobuaki	nendo
		Advanced Industrial Organization	OKUMURA Yasunori	yokumu0
		Advanced Freight Transportation Planning	SAKAI Takanori	tsakai2
	Marine Machinery and Systems	Advanced Robotics	SHIMIZU Etsuro	shimizu
		Marine System Control Engineering	KOIKE Masakazu	mkoike0
		Environment Energy Engineering	HAZUKU Tatsuya	hazuku
		Material Surface Engineering	JIBIKI Tatsuhiro	jibiki
		Advanced for Marine Environment	MOTODA Shinichi	motoda
		Thermal Energy Equipment Engineering	INOUE Norihiro	inoue
		Computational Fluid Dynamics	YOSHIOKA Satoshi	yoshioka
		Advanced Molecular Device	OHNUKI Hitoshi	ohnuki
		Micro-Nano Engineering	TANAKA Kentaro	kentaro
Applied Marine Environmental		Mathematical System Design Engineering	TAHARA Junichiro	jtahar0
Studies		Functional Material Enginnering	FUJITA Wataru	wfujit0
Studies		Atmospheric Radiation	SEKIGUCHI Miho	miho
		Machine Functional Element Engineering	FUJINO Toshikazu	tfujin0
		Heat transport phenomena	JIGE Daisuke	djige00
		Structural Materials Engineering	MORITA Motoaki	morita
		Power Electronics	KIFUNE Hiroyasu	kifune
	Industrial Policy and Culture	Marine Industry Economics	LOU Xiaobo	lou
		Advanced Methodology for Wise Use of Coastal Area	KUDO Takafumi	kudot
		Human Adaptation	CHIASHI Koichi	chiashi
		Ecocriticism	KOGURE Shuzo	skogure
		Ecocriticism	HIDAI Haruko	h-hidai
		Ecocriticism	OHNO Misa	misa
		Advanced Study of Aquatic Marine Environmental Education		t-sasaki
		Risk Communication in Food Supply Chain	OGAWA Mikako	mogawa
		Social Studies of Science	KAKIHARA Yasushi	ykakihar
		Business Management in Marine Industry	NAKAHARA Naotomo	nakahara
		Advanced Study of Marine Economic History	TAKAHASHI Chikashi	ctakah0
	Marine Exploring and Utilization	Engineering of Underwater Vehicle Systems	ISHIBASHI Shojiro	×8
	(Cooperated laboratory)	Advanced Underwater Acoustics	OCHI Hiroshi	×8
		Advanced Floating Body Utilization System Engineering	OSAWA Hiroyuki	<b>%</b> 8

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