KOBE UNIVERSITY
GRADUATE SCHOOL OF MARITIME SCIENCES
The City of Kobe is located to the west of center on the Mainland of Japan. It is accessible by land, sea, and air via domestic and international destinations. It takes 2 hours and 50 minutes to get to Tokyo by Shinkansen Bullet Train, and 1 hour and 20 minutes by plane. Within easy reach of Kobe, there are several famous cities with many historical sites and spots of interest, such as Himeji, Kyoto, Nara and Osaka.

Ever since it was opened to the world, Kobe has developed as a cosmopolitan port city where people, goods and information from around the globe are in constant motion. Now, Kobe has a population of 1.5 million including 45,000 foreign residents from as many as 139 different countries and regions, and is well known throughout Japan as being an “international city”. With a diverse population of foreign residents and the resulting facilities and amenities established by and for such foreign communities, Kobe is uniquely qualified to support a comfortably refined lifestyle for any individual from any country.

Sandwiched by Mt. Rokko in the north and the Inland Sea of Seto in the south, Kobe is endowed with its overall mild climate averaging 17.3 °C (63.1 °F) with four seasonal changes.

Message from the Dean

Progressing into our second century, smoothly and confidently

It has been a century since our institution was originally founded as Kawasaki Merchant Marine School in 1917. It has also been 14 years since the establishment of the Faculty of Maritime Sciences, Kobe University through the integration with Kobe University of Mercantile Marine in 2003. We are celebrating the 100 year anniversary of our foundation in 2017.

Now we head into the second century of our rich history as a faculty and a graduate school of Kobe University, which is aiming to become one of the top 100 universities in the world. Over the last 99 years, our faculty has been renowned as a center for cultivating valuable human resources. We must continue to develop many highly skilled experts and researchers who will become leaders in the maritime industry and society. We must also continue to strive for increased excellence in order to contribute to the development of the global maritime society. This is how the Graduate School of Maritime Sciences will plot our smooth transition into the second century of our storied history.

Japan's exclusive economic zone (EEZ) and territorial waters are the 6th largest in the world, and 99.7 % of our trade in Japan is moved by the maritime industry. The ocean is as vital to us as the air we breathe, yet many people take this simple truth for granted, and are unaware of the importance of the maritime industry.

In order to grow our current lifestyle and prosperity, the young people who make up the Graduate School of Maritime Sciences and the Faculty of Maritime Sciences should reflect with pride on the great responsibility that they hold as the future leaders of the maritime industry and contributors to society.

Welcome to the Graduate School of Maritime Sciences and the Faculty of Maritime Sciences, a contributing partner to the global maritime society.

UCHIDA Makoto, Ph. D.
Dean, the Graduate School of Maritime Sciences, Kobe University
Kobe City

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Brief History

The predecessor of the Faculty of Maritime Sciences was Kobe University of Mercantile Marine, whose origin can be traced back 100 years. Kobe University of Mercantile Marine had long contributed to the education of top-level professionals in the maritime industries. With such a long tradition and high reputation it was decided that Kobe University of Mercantile Marine would integrate into Kobe University in 2003. The mission of the Faculty of Maritime Sciences is to foster experts who possess both a comprehensive knowledge of the marine sciences and are able to use this knowledge to contribute to the field of global transportation and logistics.

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The Graduate School of Maritime Sciences

Doctoral Degree Program (3 years)

- Global Transportation Sciences
- Ocean Safety
- Systems Science
- Marine Engineering

Master’s Degree Program (2 years)

- Global Transportation Sciences
- Ocean Safety
- Systems Science
- Marine Engineering

Sea Training Course (6 months)

The Faculty of Maritime Sciences (4 years)

Undergraduate Program

- Global Transportation Sciences
- Ocean Safety
- Systems Science
- Marine Engineering

The International Maritime Research Center
affiliated with the Graduate School

The Training Ship “Fukae Maru”
affiliated with the Graduate School

The Organization of Advanced Science and Technology, Kobe University
cooperated with the Graduate School

Degree Programs

NEXT VOYAGE from Kobe

“We, The Graduate School of Maritime Sciences, are located in Kobe, an international port city, promoting education and research under the theme of global transportation.”

Interdisciplinary Approach

We are conducting research in various maritime fields including safe and efficient navigation and management in maritime transportation, energy, preservation of the maritime environment, law, and economics through a scientific approach combining natural and social sciences.

International Academic Exchanges

We also have academic exchange agreements with universities in Australia, China, France, Indonesia, Korea, Philippines, Sweden, Taiwan, Thailand, Turkey, U.K., U.S.A., Vietnam and Croatia, thus actively promoting international exchanges. In addition, since the establishment of the International Association of Maritime Universities (IAMU) in 1999, we are proud that we have been playing a major role as one of its international executive leaders.

Employment Opportunities all over the world

Our students have received job offers from companies, universities and research institutions not only in Japan but also in various countries worldwide due to our global academic research field. Therefore, our alumni are active in a wide range of fields including Japanese private companies such as shipbuilding, logistics and electronics as well as public institutions like the Ministry of Land, Infrastructure, Transport and Tourism.

We offer a 2-year Master’s program and 3-year Doctoral program. The purpose of our education and research is dedicated to cultivating creative researchers, educators and top-level professionals who possess diverse global perspectives as well as problem-solving abilities. After completing the Master’s program, students receive the degree of Master of Maritime Sciences and students who complete the Doctoral program can obtain the degree such as Doctor of Philosophy in Maritime Sciences and Technology, Doctor of Philosophy in Engineering, or Doctor of Philosophy. Our goal is to produce quality graduates who can provide a scientific approach in a highly advanced manner combining both natural and social sciences in the Maritime Sciences field.
Degree-Seeking students

Eligibility
Applicants who do not hold Japanese nationality should have successfully completed the equivalent of 16 years (for Master’s program) or 18 years (for Doctoral program) of school education or the equivalent.

Admission Procedures

1. Contact Supervisor
2. Pre-Evaluation for Eligibility (if required)
3. Application
4. Examination
5. Announcement of the results

* Prior to entering the graduate school, some of the international students spend from six months to a year as a research student (Non-degree seeking student), and then take the entrance examination for the graduate level degree programs.
* Detailed information can be found at http://www.maritime.kobe-u.ac.jp/en/

<table>
<thead>
<tr>
<th>Master’s Degree Program</th>
<th>Application Form Available</th>
<th>Application Period</th>
<th>Pre-Evaluation for Eligibility</th>
<th>Examination Date</th>
<th>Examination Subjects</th>
<th>Announcement of the results</th>
<th>Start of the Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Late May</td>
<td>Mid-July Early November</td>
<td>Mid-June Early October</td>
<td>Late August Mid-December</td>
<td>Paper-based examination, TOEFL/TOEIC scores and oral examination</td>
<td>Early September Late December</td>
<td>April or October</td>
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<thead>
<tr>
<th>Doctoral Program</th>
<th>Application Form Available</th>
<th>Application Period</th>
<th>Pre-Evaluation for Eligibility</th>
<th>Examination Date</th>
<th>Examination Subjects</th>
<th>Announcement of the results</th>
<th>Start of the Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Late May</td>
<td>Early July Late October Mid-January</td>
<td>Early June Early October Early January</td>
<td>Late August Mid-December</td>
<td>Oral examination</td>
<td>Early September Late December</td>
<td>Early September Late December Early March</td>
</tr>
</tbody>
</table>

Research students (Non-degree seeking students)

Eligibility
Applicants should have successfully completed the equivalent of 16 years (for Master’s program) or 18 years (for Doctoral program) of school education or the equivalent.

<table>
<thead>
<tr>
<th>Start of the Semester</th>
<th>Application Form Available</th>
<th>Application Period</th>
<th>Selection Method</th>
<th>Formal Consent by Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>Anytime on Request</td>
<td>Mid-February</td>
<td>Screening Examination</td>
<td>Required</td>
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<td>*Non-Residents of Japan : Late-November of the previous year</td>
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<tr>
<td>October</td>
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<td>Mid-August</td>
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<td></td>
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<td>*Non-Residents of Japan: late May</td>
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</tbody>
</table>

* Applicants are required to contact a supervisor who is doing research in the same field as your interest to gain a consent of acceptance as a research student before applying.
* Detailed information can be found at http://www.maritime.kobe-u.ac.jp/en/

Student Affairs Section  TEL : +81-78-431-6225  e-mail : fmsc-gakusei@office.kobe-u.ac.jp
The Division of Global Transportation Sciences provides education and research programs on ship operation, management technology, logistics management, and information analysis in order to multilaterally construct the optimal transportation and logistics system that combines all modes of transportation especially with a focus on marine transport. The mission of this division is to contribute to construct advanced transport systems that would support the foundation of international logistics, while reacting to the globalization of world economy.

Education and Research Area

- Fundamental Science for Navigation
- Maritime Human Factors Science
- Navigation System Science
- Planning Science for Transportation
- Information Science for Transportation
- Social Science for Transportation

Courses at Master’s Degree Program (\textendash: Courses in English)

- International Maritime Sociology
- Exercices for Marine Science and Technology
- Transport Packaging 1, 2
- International Law of Maritime Management 1, 2
- Maritime Administrative Law 1, 2
- Mathematical Analysis 1, 2
- Business Administration for Maritime Industry 1, 2
- Excellent Seamanship for Maritime Safety 1, 2
- Human Movement Science 1, 2
- Fleet Safety Management 1, 2
- Maritime Traffic Management 1, 2
- Maritime Human Science 1, 2
- Ship Operating Theory 1, 2
- Maritime Information Theory 1, 2
- Oceanographic and Navigational Cybernetics 1, 2
- Marine Observation Systems 1, 2
- Transportation System Planning 1, 2
- Logistics Management 1, 2
- Transport Policy, Planning and Management with Applied Mathematics 1, 2
- Project Evaluation 1, 2
- Communication Networks 1, 2
- Image Processing 1, 2
- Knowledge Engineering 1, 2
- Mathematical Optimization 1, 2
- Multimedia 1, 2
- Human Interface 1, 2
- International Transportation Economics 1, 2
- Transportation Business 1, 2
- Organizational Theory 1, 2
- Environmentally Sustainable Systems 1, 2

Message from International Student

Achmadi Bambang Sulistiyono
Sepuluh Nopember Institute of Technology (ITS Surabaya)

1. Why did you choose the Graduate School of Maritime Sciences, Kobe University?
There are 2 reasons why I choose the Graduate School of Maritime Sciences, Kobe University. First, Kobe is one of the famous Port Cities in the world that has great value in its mercantile maritime activity. It must be something important that supports this condition. After some research, I found that the important supporter of this condition is the “excellent academic institution” that produces great seafarers and researchers in maritime field. Second, many lecturers from my previous university graduated from this campus. Thus, this campus is the right choice to improve my study to the next level.

2. How do you feel after enrolling at Kobe University?
Very happy, of course. Because I am a general international student (not MEXT Scholarship student) that need extra effort to be here. So, when I got the information that I passed the entrance examination, I am very happy and eager to study in this campus.

3. Please explain briefly what your research is.
My research is mainly about safety and functionality of seaport with emphases on human factor and human perception. The main goal of my research is to develop the safest and most functional seaport for seafarers and other port users.

4. Do you have opportunities for cultural exchange?
Yes, a lot. This campus has increasing number of international student, thus the cultural exchange is not only Japanese culture, but other varies cultures as well. One example of cultural change of Japanese culture is enjoying “English Rakugo” performance. Rakugo is traditional Japanese verbal-comical entertainment, performed by single performer using traditional clothes and simple props. The original version of rakugo of course using Japanese language, but for us who do not have good Japanese language skill, English rakugo is the best solution to introduce traditional Japanese culture without prejudice to the authenticity. I also has a chance to perform it.

5. What are your plans for after graduation?
Currently, I registered as an employer in one of the construction company in Indonesia, so after graduate, I directly go back to my country and use my knowledge that I got from this campus and implement it for the development of the maritime field in Indonesia.

6. What was your biggest culture shock after coming to Japan?
Food. Indonesia is a Moslem majority country which is very easy to find halal and tasty food. While, here I need more effort to get it. So, if I want to eat halal and tasty food, the only way is cooking it by myself. But now, the number of halal shop and Moslem friendly restaurant is increasing. In Kobe University itself, there are some menus in cafeteria that are halal marked. The rest of it, I do not have any trouble or culture shock, because I believe that Japan is the safest country on earth with polite and respectful citizen.

7. What are the appeal points of the Graduate School of Maritime Sciences for you?
This campus has excellent research atmosphere. Clean and iconic environment. Supported by great lecturer, good laboratories, significant university-owned port and research ship called “Fukae Maru”. And another supporting vessel like yacht, motorboat, and cutter boat to encourage the research or student activities.

Open wide your insight and knowledge of the world. Find the interesting fact to be explored. Make your plan - Prepare it very well – Action – Pray to God – then wait the miracle.

as of January, 2017
世界経済のグローバル化に対応し、国際物流の基盤を支える輸送体系の高度化に貢献することを目的として、海上輸送を中心とした陸海空一体の最適な輸送と物流システムの構築を多角的に行うために、船舶運航・管理技術と物流経営・情報解析に関する教育研究を行う。

### 本コースの教育研究分野

- 航海基盤科学
- 航海システム科学
- 輸送計画科学
- 輸送情報科学
- 輸送社会科学

### 本コースの授業科目（英語による授業科目）

- 海洋人間科学1, 2
- 船舶運航論1, 2
- 海洋情報論1, 2
- 海洋計測論1, 2
- 海洋観測システム論1, 2
- 交通システム計画論1, 2
- ロジスティクスマネジメント1, 2
- 交通政策と数理計画1, 2
- プロジェクト評価論1, 2
- ネットワーク解析論1, 2
- 物質情報処理論1, 2
- 知識工学1, 2
- 数理最適化論1, 2
- マルチメディア論1, 2
- ヒューマンインタフェース1, 2
- 国際交通論1, 2
- 交通経営論1, 2
- 組織理論1, 2
- 環境システム論1, 2

### 在学生からのメッセージ

岡本 浩佑

1. 海事科学研究科を選んだ理由は？

私は大学4年生の時に、貿易関係の仕事に興味があり、大学院で国際貿易を広い視点から学び研究を行いたいと考え、海事科学研究科を選択しました。大学院入学後に当たって私は様々な研究室を見学し、実際に話を聞きました。その中で一番自分の研究したい分野、自分に合った研究室を見つけました。

2. 入学後の大学院の印象は？

大学院は学生が少なく、授業では講義と比較して実験が少ないことが特徴です。しかし、実験の機会は多く、研究の幅が広がります。さらに、学生同士の交流も活発で、研究を深めるのに役立つ機会を多く得ることができます。

3. あなたの研究内容について簡単に説明してください。

私は国際貿易に関する研究を専門にしています。私たちは国際貿易における物流の効率化を分析し、数式化し、構成された数式群を経済分析プログラムとして構築しています。この分析プログラムを用いて、輸送費用変化が与える海上輸送量への影響を分析しています。

4. 大学院進学の魅力について教えてください。

大学院は大きな学びの場であり、独立思考を育む場でもあります。私が選んだ海事科学科は、国際貿易に関する専門知識を学ぶことができるという魅力があります。さらに、研究の幅が広く、様々な分野で活躍する機会が与えられます。

5. 卒業後のあなたの進路について教えてください。

私は卒業後、物流業に進む予定です。物流業界で経験を積むことができ、実務経験を積むことが重要です。一方で、大学院で培った理論を実践に活かし、物流業界での働き方を学びたいと考えています。

6. 海事科学研究科の魅力は何ですか？

海事科学研究科の魅力は、国際貿易に関する専門知識を学ぶことが可能であり、実際の物流系の経験を積むことができることです。さらに、物流系の企業で活躍する機会が与えられ、国際的な視野を持つことができます。

7. 海事科学研究科を目指す高校生、大学院生へのメッセージ

海事科学研究科を目指す学生たちは、国際貿易に関する専門知識を学び、実務経験を積むことで、将来のキャリアを支える基盤を築くことができます。同時に、国際的な視野を持つことが求められます。そのためには、大学院生同士の交流が重要で、相互理解を深めることが求められます。
The Division of Ocean Safety Systems Science provides education and research programs which cover the fields of Water Environment, Meteorology, Geology, Maritime Safety, Radiations and Particle Beam Science, Material and Analytical Chemistry, with paying the special attentions on the preservation of global and marine environment and safety development and uses of the oceans, in order to achieve the sustainable development of the human society.

Education and Research Area

- Aquatic Environmental Science
- Oceanography and Meteorology
- Ocean Safety Engineering
- Radiation and Particle Beam Science
- Ocean Fundamental Science

Courses at Master’s Degree Program (_: Courses in English)

- International Maritime Sociology
- Exercises for Marine Science and Technology
- Aquatic Environmental Science 1, 2
- Conservation of Aquatic Environment 1, 2
- Applied Oceanography 1, 2
- Applied Meteorology 1, 2
- Atmospheric Environmental Science 1, 2
- Ocean Safety Engineering A1, A2
- Ocean Safety Engineering B1, B2
- Radiation Science and Applications 1, 2
- Applied Nuclear Reaction Engineering 1, 2
- Quantum Beam Science 1, 2
- Exploring Safety Systems through Cognitive Psychology 1, 2
- Functional Materials Science 1, 2
- Applied Mathematical Science A1, A2
- Applied Mathematical Science B1, B2

Message from International Student

Lin Yingying
Changchun University of Science and Technology

1. Why did you choose the Graduate School of Maritime Sciences, Kobe University?
Kobe University is one of the leading Japanese national university located in the beautiful city of Kobe. The high quality of education and research in the Graduate School of Maritime Science is the main inspiration to get my higher education from Kobe University.

2. How do you feel after enrolling at Kobe University?
It’s amazing. When I came to Kobe University in October 2014, I couldn’t understand Japanese at that time. Most touching to me is that my supervisor arranged a tutor for me specially and everyone at the Lab was helping me enthusiastically.

3. Please explain briefly what your research is.
My research focuses the assessment of heavy metal toxicity to marine organisms. The purpose is to detect and manage the potential risk to the marine environment.

4. Do you have opportunities for cultural exchange?
I am lucky that got the chance to live in Hyogo International House (HIH) with people from different parts of the world. The HIH office arranged events to explore Japan, its culture and traditional Japanese sports like SUMO. I also participated in many events through Kobe University’s International Student Center platform. All these activities integrate myself into the life in Japan rapidly.

5. What are your plans for after graduation?
I hope to join a Sino-Japanese joint venture, and hope my education in Japan and knowledge of Japan’s way of work will help me to a lot in my future life.

6. What was your biggest culture shock after coming to Japan?
The biggest culture shock for me is that every Japanese has a personal notebook (手帳) for writing down the schedule. The most surprising is that sometime the duration of their schedule can be even more than half-year.

7. What are the appeal points of the Graduate School of Maritime Sciences for you?
The complete researching equipment, outstanding professor and beautiful campus are the selling points in my view. Moreover, it’s awesome that we can do a research by using a school training ship (FUKAEMARU), canoes and boats.

8. Please give a message or advice to anyone who wishes to study abroad.
As we know Kobe is one of the livable city in the world. Your research would successfully here benefit from the comfortable environment and school resource bank. You won’t regret if you enrolled Kobe University.

as of January, 2017
海洋安全システム科学コース

理工学分野の幅広い知識を基礎として、人類の持続的発展に不可欠な地球・海洋環境の保全、海洋の開発と活用及び海事活動に係る安全性の確保に関する教育研究を行う。

本コースの教育研究分野

- 水環境学
- 海洋・気象学
- 安全工学
- 放射線・粒子ビーム科学
- 海洋基礎科学

本コースの授業科目（_：英語による授業科目）

- 国際海事社会学
- 海洋工学科演習
- 水環境科学1,2
- 水環境保全学1,2
- 応用海洋学1,2
- 応用気象学1,2
- 大気環境科学1,2
- 海洋安全工学A1,A2
- 海洋安全工学A1,A2
- 放射線応用科学1,2
- 核反応応用工学1,2
- 量子ビーム科学1,2
- 実験認知安全論1,2
- 機能性材料科学1,2
- 応用数理科学A1,A2
- 応用数理科学B1,B2

在学生からのメッセージ

加藤 茉里

1. 海事科学研究所を選んだ理由は？
日本で唯一、総合大学として海事科学を専攻できる大学院だからです。海洋に関係する様々な分野の教授が揃い、レベルの高い講義を受け、研究をすることもできます。また、国際交流にも力を入れており、日本だけでなく幅広い経験を積むことができると思います。

2. 入学後の大学院の印象は？
研究に専念できる設備が揃い、講義の選択においても自由度が高いと思いました。学部の時は講義が多かったが、大学院では選択肢が選べるため、自分の専門性を磨くことができると思います。また、研究室の環境が整っているため、快適な研究生活を送ることができます。

3. あなたの研究内容について簡単に説明してください。
研究は海洋環境の保全に関わるものです。特に、海洋汚染の問題に取り組んでいます。汚染物質を効率的に抽出するための技術を研究しています。

4. 大学院進学の魅力について教えてください。
専門性を磨きつつ、国際的な活動もすることができます。学部ではできない専門の研究の進捗はもちろんです、国際会議への参加や大学院生向け海外派遣研修を通じて、さらに、国际的に活躍できる人材へと成長することができます。大学院という環境であるからこそ、その両方を高めることができると思います。

5. 卒業後のあなたの進路について教えてください。
卒業後は、海洋エネルギーに関する職種である海運、海洋開発業界で活躍したいと考えています。具体的には、海洋観測データの分析や海洋エネルギーの効率的な利用など、海洋に特化した分野で活躍したいと考えています。

6. 海事科学研究所の研究室はどのようなものか？
研究を行うための設備が揃っていることが一番の魅力だと思います。キャンパス内外に研究機材が揃っていることから、海洋に関する実験や観測が容易に行えます。図書館や博物館が充実しており、研究に必要な資料が充実しています。さらに、国際交流の機会があり、国際的に活躍することを視野に入れ、新エネルギーの分野で活躍したいと考えています。

7. 海事科学研究所の魅力は何ですか？
科学の進歩に携わることができるからです。海を大切にし、海洋環境を守るために研究を進めていきます。ここでは、海洋の持続可能性に取り組むことができるため、やりがいを感じています。さらに、大学院生同士の交流が円滑で、研究を進めるのに支えられています。
**Division of Marine Engineering**

The Division of Marine Engineering provides education and research programs, while laying the foundations on engineering, to foster highly-skilled engineers and researchers who are capable of developing, designing, and managing naval architects and ocean related systems. The mission of this division is to pioneer new technologies and disciplines that would contribute to develop marine and ship industries.

<table>
<thead>
<tr>
<th>Education and Research Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Naval Architecture and Ocean Engineering</td>
</tr>
<tr>
<td>• Power and Energy Systems Engineering</td>
</tr>
<tr>
<td>• Electrical and Electronic Engineering</td>
</tr>
<tr>
<td>• Mathematics and Physics for Maritime Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Courses at Master’s Degree Program ( _: Courses in English)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• International Maritime Sociology</td>
</tr>
<tr>
<td>• Exercises for Marine Science and Technology</td>
</tr>
<tr>
<td>• Machine Design of Ocean and Offshore Structures 1, 2</td>
</tr>
<tr>
<td>• Strength Mechanics for Ship and Marine Structure 1, 2</td>
</tr>
<tr>
<td>• Ship and Marine Hydrodynamics 1, 2</td>
</tr>
<tr>
<td>• Compressible Fluid Dynamics 1, 2</td>
</tr>
<tr>
<td>• Multiphase Fluid Dynamics 1, 2</td>
</tr>
<tr>
<td>• Computational Fluid Dynamics 1, 2</td>
</tr>
<tr>
<td>• Power Systems Management 1, 2</td>
</tr>
<tr>
<td>• Engine Systems Maintenance 1, 2</td>
</tr>
<tr>
<td>• Thermal Energy Transport 1, 2</td>
</tr>
<tr>
<td>• Energy and Environment 1, 2</td>
</tr>
<tr>
<td>• System Control Theory 1, 2</td>
</tr>
<tr>
<td>• Robotics Engineering 1, 2</td>
</tr>
<tr>
<td>• Power Conversion Engineering 1, 2</td>
</tr>
<tr>
<td>• Solid State Electronics 1, 2</td>
</tr>
<tr>
<td>• Physics for Maritime Sciences A1, A2</td>
</tr>
<tr>
<td>• Physics for Maritime Sciences B1, B2</td>
</tr>
<tr>
<td>• Physics for Maritime Sciences C1, C2</td>
</tr>
<tr>
<td>• Applied Physics for Maritime Sciences 1, 2</td>
</tr>
<tr>
<td>• Mathematics for Maritime Sciences 1, 2</td>
</tr>
</tbody>
</table>

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**Message from International Student**

Xia Tian  
Beijing University of Technology

1. Why did you choose the Graduate School of Maritime Sciences, Kobe University?
   I had considered study in Japan since I started learning Japanese at college. In the science and technology research areas, Japan is one of the leading countries in the world and has also developed in other fields such as economics and education. I was always considering Japan as my first choice of studying abroad. And my seniors had introduced Kobe University to me, so I did really have a good impression of our university.

2. How do you feel after enrolling at Kobe University?
   It is a honor to be a student of Kobe University. Kobe University is one of the most famous University in Japan, and is also well known in my own country. Kobe University presents high quality of education, advanced academic facilities and outstanding professors. And Kobe is also one of the most beautiful cities of Japan. So I am so glad to be studying at Kobe University.

3. Please explain briefly what your research is.
   My research is about obstacle identification and path planning in robotic research area.

4. Do you have opportunities for cultural exchange?
   Actually there are so many activities available for foreign students. And most activities are free or very cheap for us. Unfortunately, I have not participated any of these activities for some reasons. But I’d like to try some of these activities in the future.

5. What are your plans for after graduation?
   After graduation, I might come back to my country and work in an electronics company.

6. What was your biggest culture shock after coming to Japan?
   I have to admit that the manners in the Japanese and Japanese society are really complex to me. I couldn’t say that I have completely mastered this knowledge, actually I think I still need to continue learning this for a couple of years.

7. What are the appeal points of the Graduate School of Maritime Sciences for you?
   I think the most beneficial point is that the Graduate School of Maritime Sciences can provide both theoretical knowledge and practical experience of Maritime science to us.

8. Please give a message or advice to anyone who wishes to study abroad.
   The hardest part of studying abroad may not be the language. Of course learning Japanese is very important and requires a lot of time and effort. But living abroad alone is also not easy for a foreigner. What I want to say to others is that you should adapt to Japanese culture and daily life. And don’t neglect your personal health. Take some exercise at least once a week, after all, doing research also requires a healthy body.

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*(as of January, 2017)*
マリンエンジニアリングコース

工学に基礎を置き、海や船に関わる産業分野の発展に寄与する新たな学問分野の開拓と技術開発のために、船舶海洋関連システムの開発、設計、管理を行える高度専門技術者及び研究者の養成を目的とした教育研究を行う。

本コースの教育研究分野

・船舶海洋工学
・動力エネルギーシステム工学
・電気電子工学
・海事数物科学

本コースの授業科目（英による授業科目）

・国際海事社会学
・海洋理工学演習
・海洋機械設計論1,2
・船舶・沿岸構造強度学1,2
・船舶海洋流体力学1,2
・圧縮性流体力学1,2
・混相流体力学1,2
・計算流体力学1,2
・動力システム管理論1,2
・機関システム保全論1,2
・熱エネルギーモデル論1,2
・熱エネルギー変換論1,2
・エネルギー環境論1,2
・システム制御論1,2
・ロボット工学1,2
・電力変換工学1,2
・電子物理工学1,2
・海事基礎物理學 A1, A2
・海事基礎物理學 B1, B2
・海事基礎物理學 C1, C2
・海事応用物理学1,2
・海事基礎数学1,2

在学生からのメッセージ

宋 思遥

1. 海事科学研究所を選んだ理由は？
私は高校生のころからクリーンエネルギーについて興味・関心があり、海事科学部に入学したのも日本が保有する広大な海洋に限る資源をどのように活用できるかを学びたいと思ったからです。海事科学研究所は私が学びたいと考えている多様な分野に進学できる研究科目を揃えていることが魅力でした。

2. 入学後の大学院の印象は？
海事科学部と異なり、幅広い見聞を体験でき、研究活動における専門知識の基礎から高度な技術完成に至るまでの研究を進めることが可能であることが魅力です。海事科学部では、基礎から学ぶことが重要であるのに対し、大学院では、自分で研究テーマを設定し、それを実現できることが魅力です。

3. あなたが研究する分野について教えてください。
私は海事科学研究所で、熱エネルギー変換とエネルギー環境に関する研究を行っています。水素をエネルギー源とするクリーンエネルギー社会を実現するために、水素エネルギーシステムの開発とその制御を研究しています。

4. 大学院進学の魅力について教えてください。
大学院進学の魅力は、基礎知識を深めることのできる研究を進めることが可能であることです。学部では、基礎知識を学ぶが、大学院では、その知識を深化し、新たな研究を進めることができる機会をもたらすでしょう。

5. 卒業後のあなたの進路について教えてください。
私は卒業後、研究所で研究活動に携わりたいと思います。研究を進めている中で、新しい技術を学び、社会に貢献できるよう、次に進むことが必要と考えています。

6. 海事科学研究所の魅力は何ですか？
海事科学研究所の魅力は、多様な分野に携わることです。海事科学研究所では、海洋工学、流体力学、機械工学、エネルギー工学、システム工学、ロボティクス工学など、多種多様な分野が研究対象となっています。これにより、個人の興味や志望に応じた研究を進めることが可能です。

7. 海事科学研究所を目指す高校生、大学生へのメッセージ
海事科学研究所を目指す高校生や大学生の方に、この研究を学びたいと思うなら、まずは自分自身の興味や志望を確認し、それに適した分野を選択することが重要です。また、新しい環境に適応するためには、academiaだけでなく、地域社会との関わりにも意をはいやすいことをおすすめします。
The Education Program for Global Marine Science and Technology is an inter-disciplinary education program for marine engineers, which tries to develop human resources acquiring diverse expertise in natural science, technology, and social science in the maritime field. The goal of this program is to produce people playing a leading role in the maritime field by having them see things from multiple and broad perspectives through learning a variety of knowledge from different fields. A certificate of completion is conferred on the student that successfully finishes this program.

**Courses provided for this program**

- **Required courses**
  International Maritime Sociology, Exercises for Marine Science and Technology

- **Elective courses by Division of Global Transportation Sciences**
  Oceanographic and Navigational Cybernetics, Marine Observation Systems, Logistics Management, Mathematical Optimization

- **Elective courses by Division of Ocean Safety Systems Science**
  Conservation of Aquatic Environment, Applied Oceanography, Applied Meteorology, Ocean Safety Engineering

- **Elective courses by Division of Marine Engineering**
  Strength Mechanics for Ship and Marine Structure, Ship and Marine Hydrodynamics, Power Systems Management, System Control Theory

**Master’s Degree Program for Students from English-speaking Countries**

Each division provides a group of courses taught in English, of which the total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. Every lecture of these courses is given in English, regardless of the presence of international students in the class.
The Education Program for Global Marine Science and Technology is an inter-disciplinary education program for marine science in the maritime field. The goal of this program is to produce people playing a leading role in the maritime field by having them see things from multiple and broad perspectives through learning a variety of knowledge from different fields. A certificate of completion is conferred on the student that successfully finishes this program.

The required courses are:
- Strength Mechanics for Ship and Marine Structure
- Ship and Marine Hydrodynamics
- Power Systems
- Conservation of Aquatic Environment
- Applied Oceanography
- Applied Meteorology
- Ocean Safety Engineering
- Oceanographic and Navigational Cybernetics
- Marine Observation Systems
- Logistics Management
- International Maritime Sociology
- Exercises for Marine Science and Technology

Elective courses by Division of Marine Engineering:
- Management
- System Control Theory

Elective courses by Division of Ocean Safety Systems Science:
- Mathematical Optimization

Each division provides a group of courses taught in English, of which presence of international students in the class. Every lecture of these courses is given in English, regardless of the receipt of all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only. The total credits shall amount to 16 or more. This allows a student to receive all of the necessary credits for elective courses in English only.

International Exchanges
Kobe University has concluded academic exchange agreements with more than 200 overseas universities and institutions for both inter-university and inter-faculty / graduate school exchanges. The Graduate School of Maritime Sciences is conducting intensive exchanges in education and research with the partner universities shown below.

International Association of Maritime Universities (IAMU)
IAMU was founded by seven universities representing the five continents of the world (Representative Universities) in November, 1999, with a shared recognition of significance of maritime education and training in the rapid globalization of the international shipping arena. Since then, IAMU has significantly expanded its membership, and now boasts 59 universities/academies/faculties of the world’s maritime education and training institutions, and The Nippon Foundation as its members, totaling 60 altogether.

The Graduate School of Maritime Sciences (the former Kobe University of Mercantile Marine) was a founding member of IAMU, and has been a representative of the Asian area, playing a key role in promoting IAMU’s development.

IAMU http://www.iamu-edu.org/

Asia Maritime and Fisheries Universities Forum (AMFUF)
Asia Maritime & Fisheries Universities Forum was founded on 7 November 2002, at the Korea Maritime University(KMOU) in Busan. It was the first permanent private organization in Asia, joined by 9 institutions including KMOU.

The overall objective of this Forum, which is to be held annually, is to promote the academic exchange among the Asian Maritime & Fisheries Education Institutes and to further foster international cooperation on the education and research for the maritime & fisheries experts.

The annual forum will be held in each member’s institution, alternately, for advertising this linkage and activities of the programs to the society all over Asian countries. The Graduate School of Maritime Sciences (the former Kobe University of Mercantile Marine) has been playing an important role for the further development of each institutions.
Scholarships

There are scholarships offered by Japanese government, local governments, and private organizations. Most of the scholarships can be applied for after entering a university. They are mostly for undergraduate and graduate students.

Exemptions of Admission Fee and Tuition

Privately financed students (only regular students) are eligible for 50% or 100% exemptions of fees if they have financial difficulties and are keeping excellent academic records.

Tuition and Fees

<table>
<thead>
<tr>
<th></th>
<th>Entrance Examination Fee</th>
<th>Admission Fee</th>
<th>Tuition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Students</td>
<td>17,000</td>
<td>282,000</td>
<td>535,800 (per annual)</td>
</tr>
<tr>
<td>Graduate Students</td>
<td>30,000</td>
<td>282,000</td>
<td>535,800 (per annual)</td>
</tr>
<tr>
<td>Research Students</td>
<td>9,800</td>
<td>84,600</td>
<td>178,200 (per semester)</td>
</tr>
</tbody>
</table>

*If tuition is revised, the new tuition fee is applied from the time of revision.

Campus Calendar

<table>
<thead>
<tr>
<th>Month</th>
<th>Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>Entrance Ceremony, Orientation for New Students, Medical Check-up, First Quarter begins</td>
</tr>
<tr>
<td>May</td>
<td>University Anniversary (May 15), University Festival (Fukuoka Campus)</td>
</tr>
<tr>
<td>June</td>
<td>First Quarter Examination</td>
</tr>
<tr>
<td>July</td>
<td>Second Quarter begins</td>
</tr>
<tr>
<td>August</td>
<td>Second Quarter Examination</td>
</tr>
<tr>
<td></td>
<td>Summer Vacation begins</td>
</tr>
<tr>
<td>September</td>
<td>Summer Vacation ends</td>
</tr>
<tr>
<td>October</td>
<td>Orientation for New Students</td>
</tr>
<tr>
<td>November</td>
<td>University Festival (Rokkodai Campus)</td>
</tr>
<tr>
<td>December</td>
<td>Fourth Quarter begins</td>
</tr>
<tr>
<td>January</td>
<td>Winter Vacation ends</td>
</tr>
<tr>
<td>February</td>
<td>Fourth Quarter Examination</td>
</tr>
<tr>
<td>March</td>
<td>Commencement Ceremony</td>
</tr>
</tbody>
</table>

Number of International Students by Nationality

<table>
<thead>
<tr>
<th>Country</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>17</td>
</tr>
<tr>
<td>Indonesia</td>
<td>7</td>
</tr>
<tr>
<td>Malaysia</td>
<td>7</td>
</tr>
<tr>
<td>Korea</td>
<td>4</td>
</tr>
<tr>
<td>Taiwan</td>
<td>2</td>
</tr>
<tr>
<td>Vietnam</td>
<td>1</td>
</tr>
<tr>
<td>Thailand</td>
<td>1</td>
</tr>
<tr>
<td>Myanmar</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>40</td>
</tr>
</tbody>
</table>

Number of Faculty

<table>
<thead>
<tr>
<th>Faculty Title</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor</td>
<td>36</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>37</td>
</tr>
<tr>
<td>Lecturer</td>
<td>5</td>
</tr>
<tr>
<td>Assistant Professor</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>83</td>
</tr>
</tbody>
</table>
Career Options

After completing graduate programs, many students find employment in private companies or public/educational institutions to show their highly advanced skills and knowledge.

Graduate jobs
( Including Japanese Students)

Private Companies
- Daikin Industries, Ltd.
- Hitachi Zosen Corporation
- JFE Engineering Corporation
- Kawasaki Heavy Industries, Ltd.
- Komatsu Ltd.
- Konica Minolta, Inc.
- Kowa Seisaku Co., Ltd.
- Kubota Corporation
- Mitsubishi Electric Corporation
- Nippon Steel & Sumitomo Metal Corporation
- Nippon Telegraph And Telephone West Corporation
- Nippon Yusen Kabushiki Kaisha
- NoeivR Holdings Co., Ltd.
- NSK Ltd.
- NTT Data Corporation
- Senko Co., Ltd.
- Shimadzu Corporation
- Suzuki Motor Corporation
- The Asahi Shim bun Company
- Toppan Printing Co., Ltd
- Toshiba Corporation
- Toyota Industries Corporation
- Toyota Motor Corporation

Public Institutions
- District Police Bureau
- Japan Meteorological Agency
- Japan Nuclear Energy Safety Organization, an incorporated administrative agency (JNES)
- Ministry of Land, Infrastructure, Transport and Tourism

Educational Institutions
- Istanbul Technical University (Turkey)
- Rajamangala University of Technology Thanyaburi (Thailand)

Kobe University International Student Center (KISC)

Established in April 1993, the Center serves as one of the university’s multi-functioning facilities in research and education. It provides international students with Japanese language and Japanese studies classes. It also offers consultations on problems encountered in studying or living in Japan. The local community is very important for the International Student Center. Therefore, it is actively promoting projects to strengthen the ties between international students and local organizations as well as programs to help international students improve their Japanese language abilities.

http://www.kisc.kobe-u.ac.jp/english/i_topics.html

Comments from our Alumni

Meishu Piao
OLYMPUS CORPORATION

It has been six years since firstly I came here to Japan. I majored in packaging engineering in my University in China and had a strong will to study abroad in the near future. Then, I heard that Kobe University is the only university to have a "Transport Packaging Laboratory" in Japan and I finally decided to study abroad without any hesitation.

My life was greatly influenced by many experiences at Kobe University. Once-a-month seminars at the lab provided me not only useful feedback and advice on my research, but also the opportunities to exchange ideas with people from business circles. That was helping me to decide which career direction I should take. As for my study, thanks to my professor’s guidance, I was able to join domestic and international conferences to give presentations of my research findings. The knowledge which I obtained during the graduate study is greatly helpful for my current job.

Now, I work in a global medical device company that has been achieving a large global market share of gastrointestinal endoscopy. I am designing packages of the products related to healthcare segment to protect them from the damage during transport, and I am very proud of my job. I am glad my decision to study in Kobe University was the right one. I believe you will also benefit a lot from Kobe University.

as of January, 2017