

# Maritime Sciences

The Faculty of Maritime Sciences and the Graduate School of Maritime Sciences are located in the Fukae Campus. The Fukae Campus is in the east of the international port city Kobe, and faces the Osaka Bay. We carry out a unique curriculum about the sea and ships in three special departments based on the fields of Science, Engineering, and Social Science. Here, students are also encouraged to do extra-curricular activities in addition to their schoolwork.

## Faculty of Maritime Sciences (Undergraduate School)

The Faculty of Maritime Sciences was established in October, 2003 with the integration of Kobe University of Mercantile Marine, which originated from "the Kawasaki Merchant Marine School" founded in 1917. Maritime Sciences is an interdisciplinary

academic field that aims to understand global issues pertaining to human activities on ships and on the open seas.

The objective of this Faculty is to foster the beginning of the students' careers in the maritime logistics and energy fields. Emphasis is placed on fields such as Maritime Safety Management, efficiency of Marine Propulsion and Energy, Logistics Systems, Marine Engineering and Marine Environment Conservation.

The Faculty consists of three departments: Maritime Technology Management, Maritime Logistics and Marine Engineering. The International Maritime Research Center, and the training ship "Fukae Maru" co-operate with the Faculty.

Students can advance to Master's Degree Program of Maritime Sciences in the

Graduate School of Maritime Sciences or to Sea Training Course after graduation.

## Graduate School of Maritime Sciences

The Graduate School of Maritime Sciences offers highly specialized instruction and guidance on research activities to foster creative researchers, educators, and top level professionals who possess diverse global perspectives as well as problem-solving abilities. The goal is to employ a scientific approach in a highly advanced manner, which combines both the natural and the social sciences.

The Graduate School seeks those who wish to expand and deepen the basic knowledge they acquired at the undergraduate level, and to gain practical experience after graduation.

Division of Maritime Management



*Professor Maritime Technology and Management*

### WAKABAYASHI Nobukazu

Maritime Sciences at Kobe University consists of three academic fields: Maritime Technology and Management, Maritime Logistics, and Marine Engineering. I belong to the department of Maritime Technology and Management, and am engaged in the research of developing advanced navigation systems. It is a well-known fact that the first radio communication onboard a ship took place in 1899. In the next 100 years, especially in the 21st

century, electronics and information technology for navigation have made a revolutionary advancement. It might be best described as a change from the analogue to the digital era. In our research group, we are using information communication technology (ICT) to develop an integrated navigation system that can integrate information from various instruments such as ARPA radar, AIS, VDR, etc. into an electronic navigational chart. Come discover the latest ship management technology here at Kobe University Fukae Campus, your gateway to the infinite sea!



*International Student* Republic of Korea  
**Nayounghwan Choi**

I am a Ph.D. candidate student majoring in International Transport Economics. I was very impressed by the good educational environment and passionate professors, while studying here as an exchange student from March 2009 to February 2010, so I entered the doctoral program last November. Japan was a close yet a distant country for me. As I made friends and discussed

the various cultural differences with them, my misunderstanding and bias against Japan disappeared and it made me respect their culture and lifestyle. I am also very honored to study with great professors and graduate students from different countries. I think studying here was a turning point in my life. I want to be a person who can contribute socially, by learning cultural diversity in a broader world and improving my ability to consider things from an objective viewpoint. Only then can I proudly say that I graduated from Kobe University.

Sciences is for anyone who wishes to master the specialized and interdisciplinary study of maritime sciences so as to play an active role in an interdisciplinary field of planning and research in maritime firms and maritime administrations are welcomed.

Division of Maritime Logistics Sciences is for anyone who seeks the ability to solve various problems pertaining to transportation and logistics and has the passion to engage in research and development.

Division of Marine Engineering is for anyone who has a global-scale perspective

on marine environment conservation and wishes to become a professional working in research and development of front-line technology, mechatronics, and energy and environmental science.

**Sea Training Course**

Candidates for the Certificate of Competency must enter this six months course and complete it after graduating from the Faculty of Maritime Sciences. On-board training is conducted by the National Institute for Sea Training (NIST). NIST is operating 5 training ships,

two world famous sailing ships Nippon Maru and Kaiwo Maru, one steam turbine ship Taisei Maru and two motor ships Ginga Maru and Seiun Maru.

After completion of this course and passing a physical and an oral examination, (no written examination is required at this stage) successful graduates will be issued a Certificate of Competency, and a 3rd Grade Maritime Officer (Navigation or Engineering) Certificate.



**Undergraduate Program**

Departments	Groups of Special Subjects
<b>Maritime Technology Management</b>	<ul style="list-style-type: none"> <li>•Navigation</li> <li>•Ship Engineering</li> <li>•Maritime Safety &amp; Technology Management</li> </ul>
<b>Maritime Logistics</b>	<ul style="list-style-type: none"> <li>•Logistics</li> <li>•Intelligent Transportation</li> </ul>
<b>Marine Engineering</b>	<ul style="list-style-type: none"> <li>•Marine Mechatronics</li> <li>•Energy&amp; Ecology</li> </ul>

**Relevant Course**

<b>Sea Training Course</b>	<ul style="list-style-type: none"> <li>•Nautical Science</li> <li>•Marine Engineering</li> </ul>
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**Master's Degree Program**

Department	Divisions
<b>Maritime Sciences</b>	<ul style="list-style-type: none"> <li>•Maritime Management Sciences</li> <li>•Maritime Logistics Sciences</li> <li>•Marine Engineering</li> </ul>

**Doctoral Degree Program**

Department	Divisions
<b>Maritime Sciences</b>	<ul style="list-style-type: none"> <li>•Maritime Management Sciences</li> <li>•Maritime Logistics Sciences</li> <li>•Marine Engineering</li> </ul>

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