Division of Marine Technologies

Students will learn about the advanced knowledge and skills of materials engineering, fluid engineering, thermal engineering, power engineering, electrical and electronic engineering, control engineering, information engineering and computer science, by which they can develop new academic fields and technologies contributing to the research and development of the ship and maritime industry.

Education and Research Area

- Naval architecture, Ocean and Marine Engineering
- Electrical, Electronic and Information Engineering

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

- Ship and Marine Hydrodynamics
- Strength Mechanics for Ship and Marine Structure
- Basic Seakeeping Theory
- Marine Engine System Maintenance
- Heat and Mass Transfer
- Impact Engineering for Maritime Sciences
- Multiphase Flow Dynamics
- Marine Design and Manufacturing Engineering
- Energy and Environment
- Thermal Energy Conversion
- System Control Theory
- Topics in Applied Systems Development
- Network Analysis
- Applied Machine Learning
- Power Conversion Engineering
- Motion Control
- Solid-State Electronics
- Knowledge Engineering
- Applied Mathematical Programming
- Human Interface
- Ocean Wave Modelling
- Regional Environmental Science
- Ocean Environment and Climate Studies
- Ocean Exploration Technology
- General Study of Ocean Floor Material
- General Study of Ocean Floor Physics
- General Legal Study of Marine Resources

Message from International Student

章 誠豫 *Shanghai Maritime University*

CHINA

1.Why did you choose the Graduate School of Maritime Sciences, Kobe University?
I graduated from Shanghai Maritime University, majoring in Shipping and Marine Engineering, and I am interested in my current instructor's research related to superconductors and liquid hydrogen. For further study, I chose to study at Graduate School of Maritime Sciences, Kobe University.

2.How do you feel after enrolling at Kobe University?
As one of the leading universities in Japan, I can get the latest knowledge I require for research at Kobe University. Meanwhile, the Japanese and English immersion can also help me to develop my language skills, which will provide the foundation for me to work globally.

3.Please explain briefly what your research is.
My research topic is fundamental research on a helical liquid hydrogen flowmeters. The research is to design and make a prototype flowmeter and optimize its accuracy by means of software simulation and 3D printing technology. It is expected to lay the foundation for the liquid hydrogen marine transportation project and the research of liquid hydrogen flowmeter.

4.Do you have opportunities for cultural exchange?
Yes, not only I can communicate with Japanese students in the research lab, but also the teaching associate members often announce exchange events for international students.

5.What are your plans for after graduation?
I want to work in Japan and become an engineer who can work globally.

6.What was your biggest culture shock after coming to Japan?
When boarding an escalator, people in the Kanto region stand on the left side of the escalator and leave the right side open to allow others to pass; people in the Kansai region stand on the right side and allow others to pass on the left side.

7.What are the appeal points of the Graduate School of Maritime Sciences for you?
The Fukae Campus, where the Marine Studies Course is located, is close to the ocean, so you can take a walk on the levees to relax and rejuvenate after researching.

8.Please give a message or advice to anyone who wishes to study abroad.
Once the decision is made, just do it. Studying abroad is a good opportunity to expand your horizons, see the world from a different perspective, and you will meet the bright future for yourself.

as of June, 2023