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.

Education and Research Area

- Naval Architecture and Ocean Engineering
- Power and Energy Systems Engineering
- Electrical and Electronic Engineering
- Mathematics and Physics for Maritime Science

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

- International Maritime Sociology
- Exercises for Marine Science and Technology
- Machine Design of Ocean and Offshore Structures 1, 2
- Strength Mechanics for Ship and Marine Structure 1, 2
- Ship and Marine Hydrodynamics 1, 2
- Compressible Fluid Dynamics 1, 2
- Multiphase Fluid Dynamics 1, 2
- Computational Fluid Dynamics 1, 2
- Power Systems Management 1, 2
- Engine Systems Maintenance 1, 2
- Thermal Energy Transport 1, 2
- Thermal Energy Conversion 1, 2
- Energy and Environment 1, 2
- System Control Theory 1, 2
- Robot Engineering 1, 2
- Power Conversion Engineering 1, 2
- Solid State Electronics 1, 2
- Physics for Maritime Sciences A1, A2
- Physics for Maritime Sciences B1, B2
- Physics for Maritime Sciences C1, C2
- Applied Physics for Maritime Sciences 1, 2
- Mathematics for Maritime Sciences 1, 2

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