

Call for application: Student Seminar on “Ocean and maritime governance and scientific innovation for the safe and secure oceans”

1. Background and Program Objectives

AI technology, which processes vast amounts of data and supports decision-making through inference, brings new value to the economy and society. Despite concerns regarding fake information, privacy, and copyright protection, AI plays an essential role in achieving the Sustainable Development Goals (SDGs). In particular, the maritime field, long considered a vast reservoir of data with plans for further data generation, is profoundly impacted by AI advancements. This is especially true in areas where AI is crucial, such as autonomous ship navigation for safe passage and massive data analysis for weather and ocean condition forecasting. For both the EU, which holds the world's largest exclusive economic zone, and Japan, a maritime nation, this field is a vital area for economic security.

With this background, we have launched a new program titled “Training program for Next Generation Leaders in AI in Maritime Economic Security and Sustainability (Japan-Europe)” implemented by partner universities in Italy, Austria, Sweden, Spain and Japan from October 2024. The member universities are Ca' Foscari University of Venice (Italy), University of Graz (Austria), World Maritime University (Sweden), University of the Basque Country (Spain), Leipzig University (Germany) and Hiroshima University (Japan).

Our program aims to cultivate individuals equipped with an interdisciplinary and internationally applicable perspective, knowledge, research capability, and experience in critical fields contributing to economic security for Japan and Europe, such as AI and maritime/oceanic studies. These individuals will be trained to appropriately apply their expertise in a manner that contributes to achieving the SDGs, thereby creating new value and contributing to the development of a sustainable and better society. As a part of the program, Hiroshima University welcome students from member universities who wish to participate in the online seminar to be implemented in Thursday, 27 February 2025.

2. Course Details

(1) What you can obtain:

- Basic knowledge about AI related to Maritime Economic Security and Sustainability

(2) Course Overview

The theme for FY2024	Ocean and maritime governance and scientific innovation for the safe and secure oceans
Course Instructors	Dr. Kunihiro HAMADA, Professor, Graduate School of Advanced Science and Engineering, Hiroshima University Dr. NAOKAZU TANIGUCHI, Associate Professor, Graduate School of Advanced Science and Engineering, Hiroshima University Dr. THIN THIN HTUT, Assistant Professor (Special Appointment), Graduate School of Advanced Science and Engineering, Hiroshima University

Course Date and Time	Thursday, 27 February 2025, 5:00-7:00pm JPT / 9:00-11:00am CET												
Language to be used	English and Japanese												
Communication platform	Zoom												
Recommended background knowledge	Basic knowledge of Maritime Economic Security and Sustainability												
Outline of the course	<p>1. Preparation (before the seminar)</p> <p>Watch three videos from the World NAOE Forum 2024 on JV-Campus. Students need to register on JV-Campus beforehand. (Registration instructions will be provided to participants.)</p> <p>(1) Ocean and Maritime Governance for Safe and Secure Oceans (50min)</p> <p>María Carolina Romero Lares (Associate Professor; Head of Maritime Law and Policy Specialization, World Maritime University)</p> <p>(2) Activity of Autonomous Ship Development in JMU (tentative) (25min)</p> <p>Hitoshi Hirui (Deputy General Manager, Solution Business Group, Offshore and Work vessel Development Department, Offshore & Engineering Sector, Ship & Offshore & Engineering Division, Japan Marine United Corporation)</p> <p>(3) Towards Safer Seas: Recent Advances in Maritime Traffic Research and Safety Measures (25min)</p> <p>Hiroko Itoh (Deputy Director of Maritime Risk Assessment Department, National Maritime Research Institute)</p> <p>2. Student seminar (27 February 2025)</p> <p>Time schedule</p> <table border="1"> <thead> <tr> <th>time</th> <th>contents</th> </tr> </thead> <tbody> <tr> <td>5:00-5:20 pm JPT 9:00-9:20 am CET</td> <td>Introduction</td> </tr> <tr> <td>5:20-6:15 pm JPT 9:20-10:15 am CET</td> <td>Group Discussion & Preparation for presentation</td> </tr> <tr> <td>6:15-6:25 pm JPT 10:15-10:25 am CET</td> <td>Break</td> </tr> <tr> <td>6:25-6:55 pm JPT 10:25-10:55 am CET</td> <td>Presentation</td> </tr> <tr> <td>6:55-7:00 pm JPT 10:55-11:00 am CET</td> <td>Closing</td> </tr> </tbody> </table>	time	contents	5:00-5:20 pm JPT 9:00-9:20 am CET	Introduction	5:20-6:15 pm JPT 9:20-10:15 am CET	Group Discussion & Preparation for presentation	6:15-6:25 pm JPT 10:15-10:25 am CET	Break	6:25-6:55 pm JPT 10:25-10:55 am CET	Presentation	6:55-7:00 pm JPT 10:55-11:00 am CET	Closing
time	contents												
5:00-5:20 pm JPT 9:00-9:20 am CET	Introduction												
5:20-6:15 pm JPT 9:20-10:15 am CET	Group Discussion & Preparation for presentation												
6:15-6:25 pm JPT 10:15-10:25 am CET	Break												
6:25-6:55 pm JPT 10:25-10:55 am CET	Presentation												
6:55-7:00 pm JPT 10:55-11:00 am CET	Closing												

3. Application Requirements

- Graduate & Undergraduate students enrolled in Hiroshima University
- Those who have a high level of interest in international exchange and study abroad, with a clear purpose for participation and a high level of ambition
- Participants must have a certain level of English proficiency and a willingness and positive attitude to communicate in English
- Universities other than HU: 2-3 students per university will be accepted
- HU: 13 students

4. Fees for Program Participation

Free of charge

5. Application

If you wish to apply for this program, please fill out the application form via the link below by Monday, January 20.

<https://forms.office.com/r/d5QiY38z2v>

6. Certificate

Students who complete the program will be issued a digital badge as a certificate of completion.