

Course Title	Marine AI Workshop I		
Department/Course	Graduate School of Marine Science and Technology Master's Course		
Category/Specializations	<Graduate School Subjects>、<Other Courses' Subjects>		
Year Offered	1st	Class	10
Required or Elective	elective	Credit	1
Semester	Intensive Course	Course Type	
Day/Period	INTENSIVE	Lecture Room	
Chief Instructor	Hyodo Tetsuro		
Instructors	Hyodo Tetsuro, KINO Toru		
Theme & Objects	<p>Against the backdrop of a declining birthrate and aging population, there are expectations for reform and the creation of new industries to establish a sustainable industrial base through the introduction of AI into the marine industry. In a project to achieve this, it is important for researchers in various specialized fields to discuss, plan and verify solutions by utilizing their respective knowledge. In this lecture, lecturers from the Marine AI Consortium will introduce examples of AI applications in various marine fields and present themes for discussion in a workshop format using the World Café method. Through this workshop, students will acquire the latest information in fields other than their own, communicate with researchers in different fields, and develop a bird's eye view of marine issues from a broader perspective than that of their own specialty.</p>		
Learning Outcomes	<p>In this lecture, we aim to acquire the following abilities.  (1) To understand the progress of AI projects outside of one's field of specialization and to deepen one's overall knowledge of social issues in the marine field.  (2) To acquire the communication skills to be able to understand and co-create ideas for solutions with researchers outside one's own field of expertise.</p>		
Styles of Class	<p>Combination of face-to-face and remote (real-time)  Note: "Combined use" includes simultaneous real-time delivery of face-to-face classes, face-to-face or remote classes for each class session, or a combination of both.</p>		
Course Contents	<p>Session 1: Life cycle of AI implementation project (lecture)  Session 2: Communication skills that AI engineers should acquire (lecture)  Session 3 to 14:  Background explanation and presentation of the theme (90 minutes/session/theme)  Group discussion using the World Café method (90 minutes/session/theme)  Session 15: Summary and awareness</p> <p>Scheduled dates of classes (4,5period 14:40-17:50)  1st Thursday, 2024/10/10  2nd and 3rd Thursday, 2024/10/17  4th and 5th Thursday, 2024/10/24  6th and 7th Thursday, 2024/10/31  8th and 9th Thursday, 2024/11/7  10th and 11th Thursday, 2024/11/14  12th and 13th Thursday, 2024/11/21  Preliminary date: Thursday, 2024/11/28  Preliminary date: Thursday, 2024/12/5</p>		
Prerequisites	Students must have registered the required courses of the Master's Program, "Artificial Intelligence and Machine Learning" and "Deep Learning".		
Textbook / References	Introductions will be made as necessary.		
Preparation & Review	Each lecturer's theme area will be notified in advance (approximately two weeks before), so it is recommended to prepare and review related items on the Internet.		
Assessment and Examinations	Participation in each discussion will be evaluated.		
Evaluation Criteria	Students will be evaluated on their participation in the discussion (30 points), whether they (1) presented their opinions in accordance with the theme (40 points), (2) explained logically and in a way that is easy for other participants to understand (15 points), and (3) listened attentively in order to understand the opinions of the other party (15 points).		
Teaching activities & methods			
Instructor Contact Information	Live Campus and Teams (set up a dedicated team for the class)		
Other Information	If there are many applicants, students of WISE program may be given priority. (Even if you meet the course requirements, you may not be able to take the course.)		
URL			
Code			
Teaching Language	Japanese and English		
Workload Calculation	<p>1) Class hours: 30 hours  2) Lab activities: hours  3) Preparation: 10 hours  4) Review: 5 hours  5) Preparation for presentation: hours  6) Preparation for examinations (including report writing): hours  7) Discussions with faculty: hours  8) Participation in related seminars: hours  9) Other laboratory activities: hours  10) Total study time: 45 hours</p>		

Related Degree Awarding Policy	(1) Ability to understand the social background, academic significance, and practical value of the research topic, and to promote the research appropriately: ○ (2) Extensive range of expertise related to basic and applied sciences: ◎ (3) Ability to explain research results logically and ethics in academic research: ○
Relation to SDGs	[Goal 9] Industry, Innovation and Infrastructure [Goal 12] Responsible Consumption and Production [Goal 14] Life Below Water