

JV-Campus (On-Demand Video Classes: **Free)**

The Frontline of the Ocean and Maritime Affairs Connecting Asia and the World ~Peaceful Use of the Oceans and Sustainable Development~

Presented by Hiroshima University

Nov. 2025



HIROSHIMA UNIVERSITY

Subjects Offered (Two Classes)

■ Liberal Arts Education Program

- Oceans and maritime affairs that support the lives, safety and security of people around the world
 - ✓ **Level:** Undergraduate Introductory
 - ✓ **Keyword:** Oceans and maritime affairs, ships, shipping, carbon neutrality, digital transformation, logistics economy and finance, international law of the sea, UN Convention on the Law of the Sea, ocean governance, economic security, marine resources etc.

■ Specialized Education

- Introduction of Oceans and Maritime Engineering
 - ✓ **Level:** Undergraduate Low-Intermediate
 - ✓ **Keyword:** Oceans and maritime affairs, ships, navigation, shipping and logistics, digital transformation, globalization, maritime traffic, maritime safety, marine remote sensing, marine governance, maritime security, wave information and marine measurements, etc.

Class Schedule

■ Liberal Arts Education Program

- Oceans and maritime affairs that support the lives, safety and security of people around the world

lesson1	Oceans and maritime affairs supporting peaceful use of the seas
lesson2	The forefront of the ocean and maritime field
lesson3	Ship design and construction
lesson4	What makes ships move
lesson5	Shipping transports goods safely and securely
lesson6	Protecting safety and security at sea
lesson7	Ocean information monitoring and data science
lesson8	Maritime communication networks and maritime security
lesson9	Shipbuilding digital transformation and next-generation ships
lesson10	Carbon neutral ports (CNP: port decarbonization) and logistics digital transformation
lesson11	The world economy seen from the sea (logistics, economy, and finance)
lesson12	Ocean governance (ocean policy, maritime administration, and international laws)
lesson13	Marine mineral resources and energy
lesson14	Current status and future prospects for marine recreation
lesson15	Ships, ports, and trade that supported the origin and development of maritime civilization



Class Schedule

■ Specialized Education

➤ Introduction of Oceans and Maritime Engineering

- lesson1 Introduction to the Basics and Mechanisms of Ships
- lesson2 Ship Resistance and Propulsion, and energy savings
- lesson3 Basics of Ship Motions and Autonomous Navigation Initiative
- lesson4 Ship Hull Materials and Weight Reduction
- lesson5 Structure and Strength of Ships
- lesson6 Ship Design / manufacturing technology and DX
- lesson7 Welding/joining for shipbuilding and advanced technologies
- lesson8 Ship fittings, instrumentation and control engineering
- lesson9 Safety of Maritime Transport from the Perspective of Maritime Traffic
- lesson10 Ocean Remote Sensing
- lesson11 Ocean observation and monitoring
- lesson12 NOWPHAS : Nationwide Ocean Wave information network for Ports and HARbourS
- lesson13 Characteristics of Ocean Currents in the Sea of Japan and the Seto Inland Sea Using Ship-Mounted ADCP (Acoustic Doppler Current Profiler)
- lesson14 Development of Ships and the Evolution of the Maritime Industry
- lesson15 Transportation by Ship



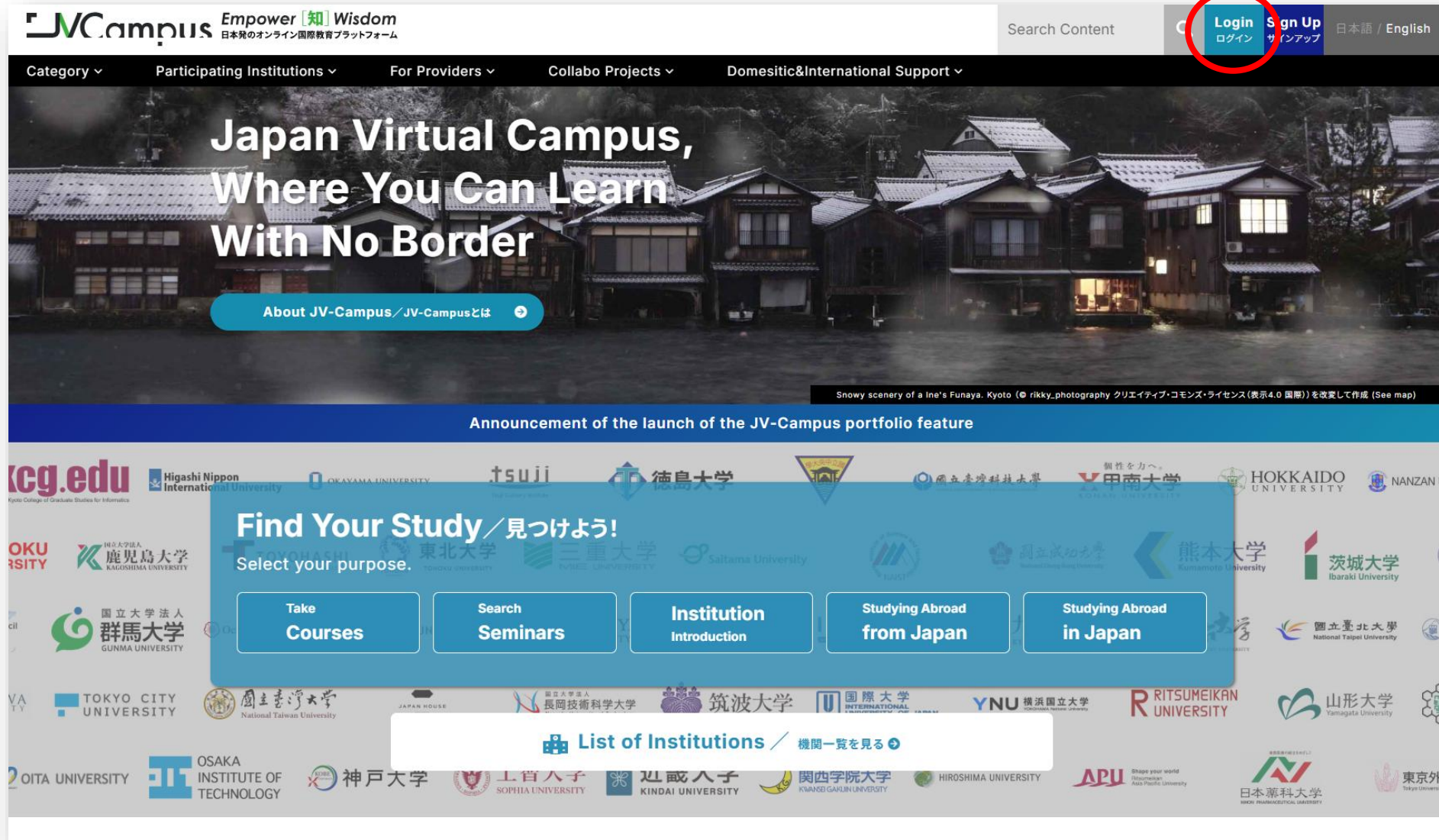
Preparing to Watch

HOW TO CREATE YOUR ACCOUNT (INITIAL REGISTRATION METHOD)

Access to JV-Campus

<https://www.jv-campus.org/en/>

Click here



The screenshot shows the homepage of the JV-Campus website. At the top left is the logo "JV Campus Empower [知] Wisdom" with the tagline "日本のオンライン国際教育プラットフォーム". To the right is a search bar and navigation links for "Login ログイン" and "Sign Up サインアップ", with the latter circled in red. Below the navigation is a main banner with the text "Japan Virtual Campus, Where You Can Learn With No Border" and a button "About JV-Campus / JV-Campusとは". A blue bar below the banner reads "Announcement of the launch of the JV-Campus portfolio feature". The main content area features a grid of university logos and a central blue box with the text "Find Your Study / 見つけよう! Select your purpose." and five buttons: "Take Courses", "Search Seminars", "Institution Introduction", "Studying Abroad from Japan", and "Studying Abroad in Japan". At the bottom, there is a white box with the text "List of Institutions / 機関一覧を見る".

Create Your Account



<https://www.jv-campus.org/mdl/login/index.php>

The image shows a login and registration form for JVCampus. At the top is the JVCampus logo. Below it are two input fields: 'Username or email' and 'Password'. A blue 'Log in' button is positioned below the password field. A link for 'Lost password?' is located below the 'Log in' button. A horizontal line separates the login section from the registration section. The registration section starts with the heading 'Is this your first time here?' followed by the text 'For full access to this site, you first need to create an account.' Below this text is a grey button labeled 'Create new account', which is circled in red. At the bottom of the form, there is a language selector set to 'English (en)' and a 'Cookies notice' button.

Click here

Create new account

Create Your Account



Age and location verification

What is
your
age?

input

In which
country
do you
live?

select

Click here

 Required

Why is this required?

To create an account, we need to confirm that you have reached the digital age of consent.

The digital age of consent is the minimum age at which a person can agree to terms such as a privacy policy and terms of use regarding the handling of personal data. This age may vary depending on the country, so we also ask you to provide your country of residence.



Create Your Account

[Policies and agreements](#) / [JV-Campus Privacy Policy](#)

JV-CAMPUS

JV-Campus Privacy Policy

Policy 1 out of 2

Please read our JV-Campus Privacy Policy

University of Tsukuba JV-Campus (1-1-1 Tennodai, Tsukuba-shi, Ibaraki) ("JV-Campus") as manager handles the personal information of User collected and used, etc. by JV-Campus as follows when a User of the JV-Campus Platform uses the Platform Service.

Unless otherwise set out, the terminology used in this Privacy Policy has the same meaning as the terminology defined in the JV-Campus Terms of Use (<https://www.jv-campus.org/en/terms-of-use/>) (the "Terms of Use").

This Privacy Policy takes precedence with respect to the use of the Platform Service in the event of any contradiction or inconsistency with any other privacy policy or rules or terms, etc. of JV-Campus specifying its policy for the protection of personal information.

1. Definition

1. JV-Campus

JV-Campus is the operating entity for the JV-Campus Platform. Specifically, the operating entity for JV-Campus is the University of Tsukuba.

2. JV-Campus Platform

JV-Campus Platform is the domain administered and operated by JV-Campus to provide the Platform Service.

3. Content

Content is the lecture footage, lecture materials, and all other information provided or attempted to be provided to User via the JV-Campus Platform.

4. The Platform Service

The Platform Service is provided by JV-Campus to User and the Content Provider.

5. User

User is a person who agrees to these Terms of Use, applies to use the Platform Service, and whose application is approved by JV-Campus.

2. Application

This Privacy Policy applies when User uses the Platform Service provided by JV-Campus.

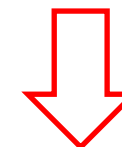
Please carefully read this Privacy Policy together with the Terms of Use and give your consent before using the Platform Service. JV-Campus deems a User who starts using the Platform Service to have understood this Privacy Policy, which explains the collection, use, provision and retention of personal information of User.

Please see 10. Inquiries for questions and inquiries about this Privacy Policy.

3. Collection of Personal Information

JV-Campus may collect the following personal information of User in order to achieve the purpose set out in 4. Use of Personal Information, etc. Personal information of User collected by JV-Campus may include information provided directly by User, information relating to the use of the Platform Service by User, and information collected from third parties.

Scroll
down





Create Your Account

Reviews of the above practices to ensure that no safeguards are properly implemented and remain appropriate.

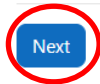
9. Amendment to this Privacy Policy

JV-Campus may from time to time amend this Privacy Policy as necessary to respond to changes in laws and regulations and out of business necessity, and display such amendments, etc. on JV-Campus Privacy Policy [posted at <https://www.jv-campus.org/en/privacy-policy/>]. We ask User to thoroughly check the contents of the latest Privacy Policy after such amendment, etc. as displayed on our website.

10. Inquiries

Please contact JV-Campus by the following methods if you have any comments on this Privacy Policy or about the exercise of rights of User under applicable laws and regulations.

- Inquiries:
 - Office of Global Initiatives, Bureau of Global Initiatives, Tsukuba University
 - JV-Campus
 - 1-1-1 Tennodai, Tsukuba-shi, Ibaraki 305-8577
- Established March 10, 2022 (No.3, A220310, 2022)
- Revised April 22, 2022 (No.4, A220422, 2022)
- August 26, 2022 (No.5, A220826, 2022)
- November 29, 2024 (No.6, A241129, 2024)
- February 14, 2025 (No.7, A250214, 2025)



Click here

[Back to top ▲](#)



Campus Area

JV-Campus Providers
Find Your Study

News & Event

New notifications

Selection Area

JV-C Pickup

Terms / Inquiry

Terms of Use
FAQ (learners)
Inquiry (learners)
Individual Institution Box Terms of Use
FAQ (providers)
Inquiry (providers)

Communication Area

Cheering Message from Japan

Policies

Privacy Policy
Site Policy
Cookie Policy

Career Development Area

JV-Campus

About JV-Campus
Participation in JV-Campus



Create Your Account



JV-CAMPUS

Before continuing you need to acknowledge all these policies. ×

Consent

Please agree to the following policies

JV-Campus Privacy Policy

Please refer to the full [JV-Campus Privacy Policy](#) if you would like to review the text.

Check I agree to the JV-Campus Privacy Policy ⓘ

Terms of Use

Please refer to the full [Terms of Use](#) if you would like to review the text.

Check I agree to the Terms of Use ⓘ

ⓘ Required

Click here



Campus Area

Selection Area

Communication Area

Career Development Area

Create Your Account



New account

Username [!]

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 special character(s) such as *, -, or #

Password [!]

Email address [!]

Email (again) [!]

First name [!]

Last name [!]

City/town

Country

Select a country [!]

[!] Required

Click here

Please input

Create Your Account



An email should have been sent to your address at

It contains easy instructions to complete your registration.

If you continue to have difficulty, contact the site administrator.

[Continue](#)

Click here



Create Your Account

You can receive the E-mail from JV-Campus as below.
Confirmation process on E-mail address, only the first time.

さん

「JV-CAMPUS」であなたのメールアドレスによる新しいアカウントの作成が依頼されました。

あなたの新しいアカウントを確定するには以下のウェブアドレスにアクセスしてください:

[https://www.jv-campus.org/mdl/login/confirm.php?
data=qy5B5hoDqMRFH83/hrsm2026mut](https://www.jv-campus.org/mdl/login/confirm.php?data=qy5B5hoDqMRFH83/hrsm2026mut)

Access here

ほとんどのメールプログラムではあなたがクリックできる青いリンクとして表示されています。クリックできない場合、あなたのウェブブラウザウィンドウ上部のアドレス欄にアドレスをコピー&ペーストしてください。

分からないことがある場合、サイト管理者にご連絡ください。

ユーザ 管理

Login again

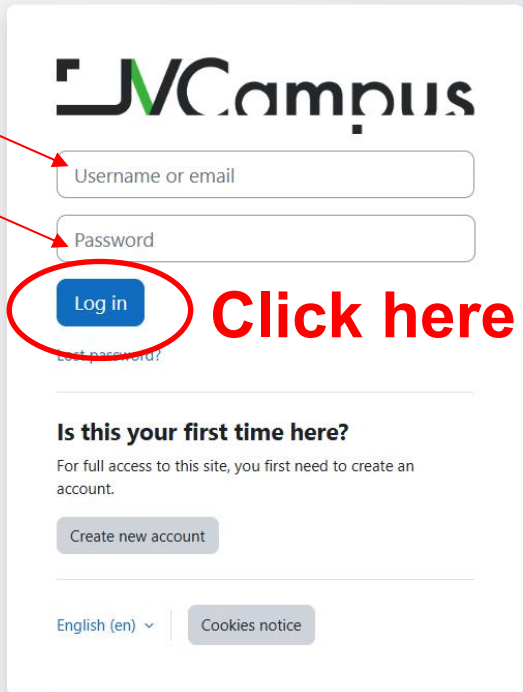


Only the first time !

ID

PassWord

Click here



The image shows a login form for JVCampus. At the top is the JVCampus logo. Below it are two input fields: 'Username or email' and 'Password'. A red circle highlights the 'Log in' button, with a red arrow pointing to it from the text 'Click here'. To the left of the form, the text 'ID' has a red arrow pointing to the 'Username or email' field, and 'PassWord' has a red arrow pointing to the 'Password' field. Below the login fields is a link for 'Lost password?'. Further down is a section titled 'Is this your first time here?' with a subtext 'For full access to this site, you first need to create an account.' and a 'Create new account' button. At the bottom left is a language selector 'English (en)' and a 'Cookies notice' button.

Login again



The screenshot shows the JV-Campus website interface. At the top, there is a navigation bar with the JV-Campus logo, a menu icon, and language options (AW, 日本語 / English). Below the navigation bar, there are dropdown menus for 'Category', 'Participating Institutions', and 'For Providers'. The main content area displays 'JV-CAMPUS' and a confirmation message: 'Thanks, [redacted] Your registration has been confirmed'. A 'Continue' button is circled in red, with a red arrow pointing to it and the text 'Click here Only the first time !'. The footer contains the JV-Campus logo, social media icons for Facebook and Instagram, and a grid of links organized into four columns: Campus Area, Selection Area, Communication Area, and Career Development Area. The Career Development Area includes links for 'About JV-Campus' and 'Participation in JV-Campus'. At the bottom right, there are logos for the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) and Top Global University Japan.

Login again



☰ JV-Campus AW 日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾

[Policies and agreements](#) / [Subscribe to Newsletter](#)

JV-CAMPUS

Subscribe to Newsletter

Policy 1 out of 1

Please read our **Subscribe to Newsletter**

Please review the following policy and agree if you wish to subscribe to our newsletter.



The newsletter will provide the latest information once a month, including:

1. Introduction of new content on JV-Campus
2. Announcement of new features on JV-Campus
3. Information from universities, companies, and organizations regarding internships, etc.

Please note that this is not an advertising email. You can unsubscribe from this email at any time.

*Even if you do not wish to receive this email, operational information such as service interruptions due to system maintenance will still be sent. Thank you for your understanding.

[Next](#) **Click here Only the first time !** [Back to top](#)

JV-Campus  

Campus Area JV-Campus Providers Find Your Study	Selection Area JV-C Pickup	Communication Area Cheering Message from Japan	Career Development Area
News & Event New notifications	Terms / Inquiry Terms of Use FAQ (learners)	Policies Privacy Policy Site Policy	JV-Campus About JV-Campus Participation in JV-Campus

Login again



☰ JVCampus AW 日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾

JV-CAMPUS

Before continuing you need to acknowledge all these policies. ×

Consent

Please agree to the following policies

JV-Campus Privacy Policy

Please refer to the full [JV-Campus Privacy Policy](#) if you would like to review the text.

I agree to the JV-Campus Privacy Policy ⓘ

Terms of Use

Please refer to the full [Terms of Use](#) if you would like to review the text.

I agree to the Terms of Use ⓘ




Subscribe to Newsletter

Please review the following policy and agree if you wish to subscribe to our newsletter.

Please refer to the full [Subscribe to Newsletter](#) if you would like to review the text.

I agree to the Subscribe to Newsletter
 No thanks, I decline Subscribe to Newsletter

ⓘ Required

JVCampus   

Check



Click here Only the first time !



HOW TO WATCH (FREE)

How to Watch (**FREE**)



The image shows a login form for JVCampus. The form is white and centered on a light gray background. It features the JVCampus logo at the top. Below the logo are two input fields: "Username or email" and "Password". A red arrow points from the word "ID" to the "Username or email" field. Another red arrow points from the word "PassWord" to the "Password" field. Below the password field is a blue "Log in" button, which is circled in red. To the right of the "Log in" button, the text "Click here" is written in red. Below the "Log in" button is a link for "Lost password?". At the bottom of the form, there is a section titled "Is this your first time here?" with a subtext "For full access to this site, you first need to create an account." and a "Create new account" button. At the very bottom, there is a language selector "English (en)" and a "Cookies notice" button.



How to Watch (**FREE**)

Participating Institutions (circled in red)

Click here (with red arrow pointing to the dropdown)

My Page

Logged-in User [Go to Profile Details](#)

Name

Email

Recently Accessed Courses [Go to My Course List](#)

- [[nocoursesregistered]]

JV-Campus Portfolio

[Go to My Portfolio](#)

In My Portfolio, you can register and manage your profile and handle the badges you have earned on JV-Campus.

Based on your registered information, you can freely create libraries. With these, you can easily publish your portfolio online or share it on social media.

If you would like to learn how to use the system in detail, we recommend taking the tutorial course.

[Take the Tutorial Course](#)

By completing the tutorial course, you can earn the "JV-Campus Welcome Badge".

Welcome to **JVCampus**

JVCampus

[f](#) [i](#)

Campus Area	Selection Area	Communication Area	Career Development Area
JV-Campus Providers Find Your Study	JV-C Pickup	Cheering Message from Japan	
News & Event	Terms / Inquiry	Policies	JV-Campus
New notifications	Terms of Use FAQ (learners) Inquiry (learners)	Privacy Policy Site Policy Cookie Policy	About JV-Campus Participation in JV-Campus

?



How to Watch (FREE)

Click here
Hiroshima
University

The screenshot shows the JVCampus website interface. At the top, there are navigation menus for 'Category', 'Participating Institutions', and 'For Providers'. A list of institutions is displayed in a grid format. 'Hiroshima University' is highlighted with a red circle. Below the list, there are sections for 'My Page', 'Logged-in User', 'Recently Accessed Courses', and 'Campus Area'. The footer contains various links and information, including 'News & Event', 'Terms / Inquiry', 'Policies', and 'JV-Campus'.

Category	Participating Institutions	For Providers
Hokkaido University	Tohoku University	Akita University
Ibaraki University	University of Tsukuba	Utsunomiya University
Saitama University	Chiba University	Institute of Science Tokyo
Tokyo University of the Arts	Ochanomizu University	Tokyo University of Marine Science and Technology
Niigata University	Nagaoka University of Technology	Kanazawa University
Gifu University	Shizuoka University	Nagoya University
Mie University	Kyoto Institute of Technology	Kobe University
Hiroshima University	ha16smys@gmail.com	Ehime University
Nagasaki University	Tokushima University	Kumamoto University
Kagoshima University	Oita University	Nara Institute of Science and Technology
Osaka Metropolitan University	University of the Ryukyus	Nihon Pharmaceutical University
Shibaura Institute of Technology	Higashi Nippon International University	Showa Women's University
Tokyo City University	Sophia University	Toyo University
Teikyo University	Tokyo University of Agriculture	International University of Japan
Nanzan University	Soka University	Ritsumeikan University
Osaka Institute of Technology	The Kyoto College of Graduate Studies for Informatics	Kindai University
Kwansei Gakuin University	Kansai University	Shokei Gakuin University
The Open University of Japan	Konan University	National Central University
National Taiwan University of Science and Technology	National Cheng Kung University	National Taiwan University
Japan Digital University	National Chengchi University	Universiti Teknologi Malaysia
	Uzbek-Japan Innovation Center of Youth	Tsujii Culinary Institute



How to Watch (FREE)

JVCampus Empower [知] Wisdom
日本発のオンライン国際教育プラットフォーム

Search Content

My Page
マイページ

日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾ Collabo Projects ▾ Domesitic&International Support ▾

Lecture | Activities and Messages, etc. | About Japan

HIROSHIMA UNIVERSITY

Institution's HP

Hiroshima University is a national institution established in Hiroshima, the world's first atomic bombed city in human history. Based on its founding principle of "a single unified university, free and pursuing peace", HU has contributed to the creation of a diversified, free and peaceful global community as an exceptional institution of learning in the fields of education, research, medical services, and social contribution.

Comprising 12 schools, 5 graduate schools, a university hospital, and 11 attached schools, HU is one of the largest and most comprehensive universities in Japan.

HU intends to produce the next generation of talented individuals who will contribute to the well-being of humanity, by establishing a worldwide research and education center which will implement "Science for Sustainable Development" to play a role in creating a global, diversified, free, and peaceful society.

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Specialized Education



Lecture contents / 学習コンテンツ

On Air

Introduction of Ocean and Maritime Engineering

HIROSHIMA UNIVERSITY

Introduction of Ocean and Maritime Engineering

On Air

Oceans and maritime affairs that support the lives, safety and security of people around the world

HIROSHIMA UNIVERSITY

Oceans and maritime affairs that support the lives, safety and security of people around the world



Liberal Arts Education Program

On Air

日本グローバル人材育成プログラム
Japan-U.S. Global Leadership Program in the Age of Artificial Intelligence

HIROSHIMA UNIVERSITY

Japan-U.S. Global Leadership Program in the Age of Artificial Intelligence

On Air

How Fujin and Raijin Arrived in Japan

HIROSHIMA UNIVERSITY

How Fujin and Raijin Arrived in Japan

How to Watch (FREE)



JVCampus Empower [知] Wisdom
日本のオンライン国際教育プラットフォーム

Search Content

My Page
マイページ

日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾ Collabo Projects ▾ Domestic&International Support ▾

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Lecture contents / 学習コンテンツ

On Air

Introduction of Ocean and Maritime Engineering

HIROSHIMA UNIVERSITY

Introduction of Ocean and Maritime Engineering

Learning Free

On Air

Oceans and maritime affairs that support the lives, safety and security of people around the world

HIROSHIMA UNIVERSITY

Oceans and maritime affairs that support the lives, safety and security of people around the world

Learning Free

On Air

Japan-U.S. Global Leadership Program in the Age of Artificial Intelligence

HIROSHIMA UNIVERSITY

Japan-U.S. Global Leadership Program in the Age of Artificial Intelligence

Learning Free

On Air

How Fujin and Raijin Arrived in Japan

HIROSHIMA UNIVERSITY

How Fujin and Raijin Arrived in Japan

Learning Free

On Air

Rising numbers of international students

HIROSHIMA UNIVERSITY

Religious diversity and community in intercultural education

Learning Free

On Air

Body and mind in Japanese culture

HIROSHIMA UNIVERSITY

Body and mind in Japanese culture

Learning Free

On Air

Is international tourism to Japan sustainable?

HIROSHIMA UNIVERSITY

Is international tourism to Japan sustainable?

Learning Free

On Air

What is a Database?

HIROSHIMA UNIVERSITY

What is a Database?

Learning Free

On Air

Sino-Japanese cultural exchange and barriers

HIROSHIMA UNIVERSITY

Sino-Japanese cultural exchange and barriers

Learning Free

On Air

the Otani Expedition

HIROSHIMA UNIVERSITY

the Otani Expedition

Learning Free

On Air

What is a Database?

HIROSHIMA UNIVERSITY

What is a Database?

Learning Free

↑ TOP

Specialized Education
Click here

Liberal Arts Education Program

Click here



Watch Liberal Arts Education Program

JVCampus Empower [知] Wisdom
日本のオンライン国際教育プラットフォーム

Search Content Q **My Page** マイページ 日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾ Collabo Projects ▾ Domesitic&International Support ▾

HIROSHIMA UNIVERSITY

Liberal Arts Education Program

[Learning](#)

Oceans and maritime affairs that support the lives, safety and security of people around the world

#Oceans and maritime affairs #Ships and Shipping
 #Marine governance and Economic security
 #Oceans and Maritime Digital transformation (DX)
 #Oceans and Maritime Green transformation (GX)

The following content is provided in order to develop global human resources who will be active in the oceans and maritime fields in Asia (particularly ASEAN countries) and around the world.

- Focusing on shipbuilding and shipping, marine science and technology, marine observation, and the maintenance, management, and conservation of the marine environment as major fields related to the oceans and maritime fields, we provide opportunities to "get to know, observe, and learn" about actual work and the forefront of manufacturing.
- In addition, using Japan as an example, a maritime nation surrounded by sea on all sides, we provide opportunities to "get to know, observe, and learn" about the importance of logistics economy, international trade, and international business, as well as the role, importance, and nature of work related to international cooperation and collaboration based on maritime laws, marine policies, and the international order.
- In order to provide content aimed at providing career guidance and role models in the oceans and maritime fields, interviews and on-site filming will be conducted mainly at the workplaces of Hiroshima University alumni who are active in major organizations in the industrial, government, academic and financial sectors, such as educational and research institutions related to the oceans and maritime fields, national research institutes, marine and maritime companies (shipbuilding, heavy industry, shipping, consulting, communications, etc.), government agencies (Maritime Bureau, Maintenance Bureau), and others (insurance etc.), to introduce the actual work in the oceans and maritime fields.

Oceans and maritime affairs that support the lives, safety and security of people around the world

Hiroshima University

Enroll (Free registration)

Click here



Watch Liberal Arts Education Program

JV-Campus

Category ▾ Participating Institutions ▾ For Providers ▾

AW ▾ 日本語 / English

Oceans and maritime affairs that support the lives, safety and security of people around the world

Enrolment options

Oceans and maritime affairs that support the lives, safety and security of people around the world →

Teacher: Hidemi mtsuda
Teacher: 卓司 中島
Teacher: 将昭 佐野
Teacher: 工学系総括支援室 広島大学
Teacher: 恭崇 杉本

JV-Campus

▽ **Self enrolment (Student)**

No enrolment key required.

Enrol me

Click here

JV-Campus

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Campus Area	Selection Area	Communication Area	Career Development Area
JV-Campus Providers Find Your Study	JV-C Pickup	Cheering Message from Japan	
News & Event	Terms / Inquiry	Policies	JV-Campus
New notifications	Terms of Use FAQ (learners) Inquiry (learners) Individual Institution Box Terms of Use FAQ (providers) Inquiry (providers)	Privacy Policy Site Policy Cookie Policy	About JV-Campus Participation in JV-Campus

文部科学省 TOP GLOBAL UNIVERSITY JAPAN

?



Watch Liberal Arts Education Program

Video Menu

You can watch approximately 90 minutes (six 15-minute videos) of each content.
@Total: 15*6=90 videos

Ex. Click here

Please watch the video you are interested in.

There is no need to check tests or reports in each class.
Feel free to skip them.

The screenshot displays the JVCampus interface. On the left, a sidebar menu lists various course items, with 'The Cutting Edge of the mari...' circled in red. A red arrow points from this menu item to the text 'Ex. Click here'. The main content area shows the course details for 'Liberal Arts Education Program' at Hiroshima University. A blue box highlights the title 'Oceans and maritime affairs that support the lives, safety and security of people around the world'. Below the title are several hashtags: #Oceans and maritime affairs, #Ships and Shipping, #Marine governance and Economic security, #Oceans and Maritime Digital transformation (DX), and #Oceans and Maritime Green transformation (GX). A 'Learning' button is visible in the top right corner of the content area. On the right side, a video player displays the same title. The top navigation bar includes 'Category', 'Participating Institutions', and 'For Providers' dropdowns, along with a language selector for '日本語 / English'.



Watch Liberal Arts Education Program

≡ JVCampus

AW | 日本語 / English

Category ▾ Participating Institutions ▾ For Providers ▾

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- General
 - アナウンスメント
- The Cutting Edge of the marine and maritime field
 - Utilization of Digital Data in Ship Operations
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 - 01-2_Check test 2
 - Development and Demonstrati...
 - 01-3_Check test 3
 - 01-4_課題 (講義1) / Assignm...
- International Shipping that S...
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Course TOP / The Cutting Edge of the marine and maritime field / Utilization of Digital Data in Ship Operations

Oceans and maritime affairs that support the lives, safety and security of people around the world

In this part, students learn about "Utilization of Digital Data in Ship Operations".

15401-01-01-01_船舶運航におけるデジタルデータ活用 - JV-Campus movie contents

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Summary

Click here & Watch

?

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JVCampus Empower [知] Wisdom 日本発のオンライン国際教育プラットフォーム

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HIROSHIMA UNIVERSITY

Subject | Engineering

Introduction of Ocean and Maritime Engineering

#Maritime civilization and history and Development of Ships

#Naval Architects and Ocean Engineering, Energy-saving technology, Autonomous navigation technology

#Digital twin technology, Ocean monitoring technology

#Design and Production, Maritime logistics digital transformation

#Marine governance

The course will provide an overview of the wide range of education and expertise in the oceans and maritime field, which is closely related to the international community, mainly Asia (especially the ASEAN countries, with Indonesia at the core, which is experiencing remarkable economic development and is strengthening its oceans and maritime sector as a national policy), using ships as the main subject, which carry more than 99% of Japan's trade cargo volume..

- Learn about maritime civilization, culture, and history from ancient times to the present, and consider ships of the near future.
- Learn how ships run safely and how they move, and consider the possibility of energy-saving and automatic operation of ships.
- Learn about the structure, vibration, strength, and safety of ships, and study technologies for reducing the weight of ship hull structures, monitoring, and simulating structural response.
- Learn the basic flow of basic design, performance design, hull design, and outfitting design of a ship, and learn about the recent Digital transformation of manufacturing sites, such as streamlining of design and automation of welding processes.
- Learn about ship operation, navigation, and information and communication, which are important to realize safe and efficient navigation at sea.
- Learn about the trade and industrial structure of maritime transport, and acquire knowledge of the Digital transformation of logistics through the introduction of IoT technology.
- Learn about maritime rescue, preservation of the maritime environment, and ensuring public safety and maritime traffic safety at sea.

Specialized Education

Learning

Hiroshima University

Enroll (Free registration)



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The screenshot displays the JVCampus website interface. At the top, there is a navigation bar with the JVCampus logo, a user profile icon (AW), a notification bell, a chat icon, and language options (日本語 / English). Below the navigation bar, there are dropdown menus for 'Category', 'Participating Institutions', and 'For Providers'. The main content area features a red-bordered box containing the text 'Introduction of Ocean and Maritime Engineering' and 'Enrolment options'. Below this, there is a link 'Introduction of Ocean and Maritime Engineering' with an external link icon. The 'Teacher' section lists: 'Teacher: Hidemi mtsuda', 'Teacher: 卓司 中島', 'Teacher: 将昭 佐野', 'Teacher: 工学系総括支援室 広島大学', and 'Teacher: 恭崇 杉本'. Below the teacher list is the 'JV-Campus' logo. A dropdown menu is open for 'Self enrolment (Student)', showing the text 'No enrolment key required.' and a blue 'Enrol me' button, which is circled in red. The footer contains the JVCampus logo, social media icons for Facebook and Instagram, and four columns of links: 'Campus Area' (JV-Campus Providers, Find Your Study), 'Selection Area' (JV-C Pickup), 'Communication Area' (Cheering Message from Japan), and 'Career Development Area' (JV-Campus, About JV-Campus, Participation in JV-Campus). There are also links for 'News & Event' (New notifications), 'Terms / Inquiry' (Terms of Use, FAQ (learners), Inquiry (learners), Individual Institution Box Terms of Use, FAQ (providers), Inquiry (providers)), and 'Policies' (Privacy Policy, Site Policy, Cookie Policy). At the bottom right, there are logos for '文部科学省' (MEXT) and 'TOP GLOBAL UNIVERSITY JAPAN', along with a help icon (question mark).



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Video Menu

You can watch approximately 90 minutes (six 15-minute videos) of each content. @Total: 15*6=90 videos

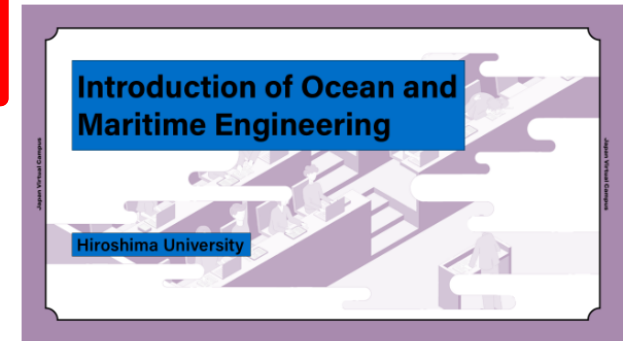
Ex. Click here

Please watch the video you are interested in.

There is no need to check tests or reports in each class. Feel free to skip them.

The screenshot shows the JVCampus interface. On the left, a sidebar menu is highlighted with a red box, listing course sections. The section 'Introduction to the Basics an...' is circled in red, with a red arrow pointing to the text 'Ex. Click here'. The main content area shows the course details for 'Introduction of Ocean and Maritime Engineering', which is also highlighted with a red box. The course description and learning objectives are visible. On the right, a 'Specialized Education' card is shown, featuring a 3D model of a ship and the text 'Introduction of Ocean and Maritime Engineering' and 'Hiroshima University'.

Specialized Education





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The screenshot shows the JVCampus website interface. At the top, there are navigation menus for 'Category', 'Participating Institutions', and 'For Providers'. A user profile 'AW' and language options '日本語 / English' are visible in the top right. On the left, a sidebar menu lists various course topics, with 'Introduction to the Basics and ...' highlighted in a red box. The main content area features a red-bordered box with the title 'Introduction of Ocean and Maritime Engineering'. Below this, a video player is shown with a play button circled in red. To the right of the video player, a list of ship types is provided: Container ships, RORO ships, LNG ships, LPG ships, Bulk carriers, and Tankers. The 'Tankers' entry is highlighted with a red box. A red callout box with the text 'Click here & Watch' points to the play button. Below the video player, there is a blue arrow pointing right with the text 'Take a look at the photos'. The page number '6' is visible at the bottom right of the video player area. The footer includes the text 'Last modified: Friday, 12 September 2025, 2:21 PM' and a help icon.

Course TOP / Introduction to the Basics and Mechanisms of Ships 1 / Introduction to the Basics and Mechanisms of Ships 1-1

Introduction of Ocean and Maritime Engineering

This is the first part in that series.

Ships That Support Our Lives, for example

- Container ships (コンテナ船)
 - A ship that transports various goods and cargo in special containers (international standard). It is the main means of maritime transportation. For example, it transports clothing, electrical appliances, miscellaneous goods, etc.
- RORO ships (RORO船)
 - An abbreviation for Roll-On/Roll-Off ship. A cargo ship that carries and transports trucks and trailers loaded with cargo.
- LNG ships, LPG ships (LPG船・LNG船)
 - LPG carriers (liquefied petroleum gas carriers) are cargo ships that transport liquefied gas such as butane and propane.
 - LNG carriers (liquefied natural gas carrier) are cargo ships that transport natural gas in a liquefied state.
- Bulk carriers (ばら積み船)
 - A ship that transports various resources in large quantities and without packaging. For example, it transports grain, iron ore, etc.
- Tankers (タンカー)
 - A ship which carries crude oil, petroleum products, and liquefied gases, and is equipped with large tanks.

Take a look at the photos

Last modified: Friday, 12 September 2025, 2:21 PM



Presented by Hiroshima University

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