シラバス参照

<<Last Updated:2025/01/23>>

Course Schedule Information

Course Code	24S078
Semester	Fall Term
Day and Period	Fri2
Course Name (Japanese)	Analytical Chemistry for Interface
Course Name	Analytical Chemistry for Interface
Room	Online
Course Numbering Code	24CHEM6G003
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	TSUKAHARA Satoshi
Course of Media Class	Applicable（Undergraduate students can include up to 60 credits in media class course as requirements for graduation.）

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Basic Syllabus Information

Eligibility	Graduate students, SISC students
Other	

Detailed Syllabus Information

Course Subtitle	
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	Principle of interfacial tension, methods for determination of interfacial tension, some interface-specific spectroscopy, some chemical phenomena at liquid/liquid interface.

Learning Goals	**1**	You can understand some chemical phenomena occurring at liquid/liquid interfaces.
Requirements, Prerequisites	Nothing	
Attendance and Student Conduct Policy	Each attendance will be based on the ratio of watched time to the total time of the online streaming. Details will be announced at the first guidance.	
Class Plan	**1st**	Title:
		1. Thermodynamics of interfacial tension
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
	2nd	Title:
		2. Method for the determination of interfacial tension (I)
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
	3rd	Title:
		3. Method for the determination of interfacial tension (II)
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
	4th	Title:
		4. Specific interfacial phenomena
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
	5th	Title:
		5. Interface-specific spectroscopy
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
	6th	Title:
		6. Second-harmonic generation, sum frequency generation
		Instructor :
		Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.

7th	Title:
	7. Total-internal reflection
	Instructor :
	Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.
8th	Title:
	8. Conclusion
	Instructor :
	Independent Study Outside of Class : After lecture, you should read the documents again and you should check your notebook and the calculations.

Textbooks	Online distribution using CLE (on demand).
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Allocation of Marks	60%	40%			

Additional Information on Grading	Learning engagement is the ratio of watched time to the total time of the online streaming. Details will be announced at the first guidance.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	Online lecture and tasks using CLE (on demand).
Office Hours	Please contact with the CLE message function or send e-mail at sxt@chem.sci.osaka-u.ac.jp.

Instructor(s)

Instructor Name	Office	Extension	E-mail
Satoshi TSUKAHARA	G213	5411	sxt@chem.sci.osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/25>>

Course Schedule Information

Course Code	88A068
Semester	Fall and Winter Term
Day and Period	Thu2
Course Name (Japanese)	アジア太平洋地域の気候変動 ― 科学と解決策
Course Name	Climate Change in Asia Pacific ― Science and Solutions
Capacity	0
Room	最先端医療棟演習室3
Course Numbering Code	88INES9U105
Required/Optional	High-flex class/ハイフレックス授業
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	BARRETT BRENDAN FRANCIS DOMINIC
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Climate Change in Asia Pacific ― Science and Solutions
Language of the Course	English

<table>
<tr><td>Learning Methods</td><td>Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website)
Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork)
Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)</td></tr>
<tr><td>Course Objectives</td><td>In 2022, the UN Secretary General, António Guterres, described the latest report from the Intergovernmental Panel on Climate Change (IPCC) as “code red for humanity.” This suggests that the world is facing a climate emergency and that urgent measures are required to reduce greenhouse gas emissions and to adapt to the potential impacts of climate change.

In this course students will examine the causes and science behind climate change, with a particular focus on the impacts in the Asia Pacific region. Working with experts from a network of partner universities in the region, students will also explore potential solutions in terms of effective measures to deal with sea level rise, coral reef conservation, transition to renewable energy, promotion of low carbon economic and urban development, and so on.

This multi-disciplinary, classroom-based, videoconference enabled (using Zoom) collaborative course, provides a unique opportunity for students to interact with their peers, scientists, and experts from across the Asia Pacific and to engage in conversations on how we can collectively respond to the climate crisis.</td></tr>
<tr><td>Learning Goals</td><td><table>
<tr><td>1</td><td>Explore the current climate change trends, expected climate change impacts and potential responses to climate change in the context of the Asia/Pacific region.</td></tr>
<tr><td>2</td><td>Examine and critically assess a wide array of short, medium and long-term climate change adaptation measures.</td></tr>
<tr><td>3</td><td>Analyze existing greenhouse gas reduction/mitigation strategies from a multi-country and regional perspective.</td></tr>
<tr><td>4</td><td>Develop the ability to identify major social and economic challenges facing the Asia Pacific region in the context of climate change and the transition to a net-zero energy future.</td></tr>
<tr><td>5</td><td>Develop a sophisticated understanding of system-wide and individual approaches to making a net-zero carbon transition.</td></tr>
</table></td></tr>
<tr><td>Requirements, Prerequisites</td><td>This course requires that the students have good English communication skills (no need for English language test scores). Students are welcomed to take this course to improve their English skills and as such students from diverse fields of studies are encouraged to take the course.</td></tr>
<tr><td>Attendance and Student Conduct Policy</td><td>This course requires class participation and engaged discussion. Students are expected to attend all sessions, unless there are special circumstances in which case students should inform the course coordinator in advance.</td></tr>
<tr><td>Class Plan</td><td><table>
<tr><td rowspan="4">1st</td><td>Title:Session 1</td></tr>
<tr><td>Climate Science and Expected Impacts</td></tr>
<tr><td>Instructor : Victoria Keener, University of Hawaii</td></tr>
<tr><td>Independent Study Outside of Class : Read results of a survey on young people and climate anxiety: https://pubmed.ncbi.nlm.nih.gov/34895496/</td></tr>
<tr><td rowspan="2">2nd</td><td>Title:Session 2</td></tr>
<tr><td>Student Breakout Session - Measuring Carbon Footprints</td></tr>
</table></td></tr>
</table>

	Instructor : Brendan F.D. Barrett, Osaka University
	Independent Study Outside of Class : Measure carbon footprint before class using this online tool: https://www.carbonfootprint.com/calculator.aspx
3rd	Title:Session 3
	Climate Change, Sea Level Rise and Coral Reefs
	Instructor : Dolan Eversole (University of Hawaii) and Takashi Nakamura (Ryukyu University)
	Independent Study Outside of Class : Learn about the impacts of climate change on coral reefs: https://oceanservice.noaa.gov/facts/coralreef-climate.html#:~:text=Climate%20change%20dramatically%20affects%20coral%20reef%20ecosystems&text=A%20warming%20ocean%3A%20causes%20thermal,land%2Dbased%20sources%20of%20sediment.
4th	Title:Session 4
	Net Zero Carbon and 100% Renewable Japan
	Instructor : Yugo Tanaka (Institute for Global Environmental Strategies) and Yuko Nishida (Renewable Energy Institute)
	Independent Study Outside of Class : Read about how to Triple Renewables in Japan for a 1.5℃ Pathway: https://www.renewable-ei.org/en/activities/reports/20231207.php
5th	Title:Session 5
	Student Breakout Session - 1.5C Lifestyles
	Instructor : Brendan F.D. Barrett, Osaka University
	Independent Study Outside of Class : Read the report by Lewis Akenji, Magnus Bengtsson, Viivi Toivio, Michael Lettenmeier, Tina Fawcett, Yael Parag, Yamina Saheb, Anna Coote, Joachim H. Spangenberg, Stuart Capstick, Tim Gore, Luca Coscieme, Mathis Wackernagel, Dario Kenner. 2021. 1.5-Degree Lifestyles: Towards A Fair Consumption Space for All. Hot or Cool Institute, Berlin.
6th	Title:Session 6
	China's Climate and Energy Policy
	Instructor : Yuquan Zhang, SJTU
	Independent Study Outside of Class : Read about the roadmap to carbon neutrality in China: https://www.iea.org/reports/an-energy-sector-roadmap-to-carbon-neutrality-in-china
7th	Title:Session 7
	Carbon Neutral Hawaii by 2045 and 100% Renewable Samoa
	Instructor : Makena Coffman (University of Hawaii) and Filoi Kirsten (Government of Samoa)
	Independent Study Outside of Class : Read about the decarbonization measures of Hawaii: https://climate.hawaii.gov/hi-mitigation/goals-and-progress/
8th	Title:Session 8
	Climate change impacts and adaptation: insights from the Australian Black Summer fires
	Instructor : Lauren Rickards, La Trobe University

	Independent Study Outside of Class : Read about the Australia Black Summer Fires: https://recovery.preventionweb.net/collections/recovery-collection-australia-black-summer-bushfires-2019-2020
9th	Title:Session 9
	Climate Change and Food Security
	Instructor : Kazuo Watanabe (University of Tsukuba) and Subhashni Raj (University of Hawaii)
	Independent Study Outside of Class : Read about Climate Change and Food Security from the World Bank: https://www.worldbank.org/en/news/feature/2022/10/17/what-you-need-to-know-about-food-security-and-climate-change
10th	Title:Session 10
	Student presentations
	Instructor : Brendan F.D. Barrett, Osaka University
	Independent Study Outside of Class : Prepare and rehearse presentation.
11th	Title:Session 11
	Japan's Green Transformation
	Instructor : Hiroshi Ohta, Emeritus Professor, Waseda University
	Independent Study Outside of Class : Read this journal article - https://www.sciencedirect.com/science/article/pii/S2589811623000241
12th	Title:Session 12
	CDP and Recent Global Trends on Climate Change
	Instructor : Takuya Harada, CDP Japan
	Independent Study Outside of Class : Learn about the CDP: https://www.cdp.net/en
13th	Title:Session 13
	Greening the Sky with Sustainable Aviation Fuels
	Instructor : Chong Cheng Tung, Shanghai Jiao Tong University
	Independent Study Outside of Class : Learn more about Sustainable Aviation Fuels: https://www.neste.com/products-and-innovation/sustainable-aviation?gad_source=1&gclid=CjwKCAiA0bWvBhBjEiwAtEsoW7gAFGPSiAeXrUM97Hb_eGa1Bisc-yMxZ1-3TeTBMP8oQcXEHbi5JBoCRJ0QAvD_BwE
14th	Title:Session 14
	Read paper on Accelerated Decarbonization accessible via CLE.
	Instructor : Tony Capon, Monash University
	Independent Study Outside of Class : Read the following article: https://www.thelancet.com/commissions/planetary-health
15th	Title:Session 15
	Accelerated Climate Change and/or Accelerating Decarbonization?
	Instructor : Brendan F.D. Barrett, Osaka University
	Independent Study Outside of Class : Read paper on Accelerated Decarbonization accessible via CLE.

<table>
<tr><td>Textbooks</td><td></td></tr>
<tr><td>Reference</td><td>Recommended reading will be shared online via CLE.</td></tr>
<tr><td>Grading Policy
*Hover the mouse over the number of a learning goal to view the full text of it.</td><td>
<table>
<tr><th>Evaluation Methods</th><th>Learning engagement</th><th>Individual Carbon Transition Discussion</th><th>1.5C Lifestyle Discussion</th><th>Presentation</th><th>Report/paper</th></tr>
<tr><td>Learning Goals1</td><td>○</td><td></td><td></td><td>○</td><td>○</td></tr>
<tr><td>Learning Goals2</td><td>○</td><td></td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Learning Goals3</td><td>○</td><td>○</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Learning Goals4</td><td></td><td>○</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Learning Goals5</td><td></td><td>○</td><td>○</td><td>○</td><td>○</td></tr>
<tr><td>Allocation of Marks</td><td>10%</td><td>15%</td><td>15%</td><td>30%</td><td>30%</td></tr>
</table>
</td></tr>
<tr><td>Additional Information on Grading</td><td>This course requires class participation and engaged discussion. The assignments are designed to foster discussion between students across the multiple institutions in breakout groups; for example, to estimate your carbon footprint using an online calculator to share in an online break-out room via Zoom.</td></tr>
<tr><td>Reasonable Accommodation</td><td>・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center.

・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.
Website : https://acs.hacc.osaka-u.ac.jp
Tel : 06-6850-6107
E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp</td></tr>
<tr><td>Special Note</td><td>This class is jointly delivered by faculty drawn from a network of universities in the Asia Pacific region and classrooms are connected via Zoom throughout the entire course.

The course has been delivered in this format since 2003 and in the twenty year period to 2025 over1,800 students from all the partner universities have completed the course.

The course is designed to encourage extensive interaction between the students from the participating universitys through the use of break-out sessions.</td></tr>
<tr><td>Office Hours</td><td>Should students wish to make an appointment with the instructor please send an email to brendan.barrett.cgin@osaka-u.ac.jp</td></tr>
<tr><td>Course Conducted by Instructors with Practical Experience</td><td>Co-instructors of this course are:

Brendan F.D. Barrett, Professor, Center for Global Initiatives, Osaka University

Subhashni Raj, Assistant Professor, Urban And Regional Planning, University of Hawaii

Faainu Latu, Head of the Science Department, National University of Samoa</td></tr>
</table>

	Yuquan Zhang, Associate Professor, China-UK Low Carbon College, Shanghai Jiao Tong University

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Brendan FD Barrett	ブレンダン・FD・バレット	Centre for Global Initiatives, Professor	510	6132	brendan.barrett.cgin@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/22>>

Course Schedule Information

Course Code	88A069
Semester	Fall and Winter Term
Day and Period	Tue5
Course Name (Japanese)	人間中心のデザイン概論
Course Name	Introduction to Human-Centered Design
Capacity	0
Room	Online
Course Numbering Code	88INES9U105
Required/Optional	Online/オンライン授業 イステッキ ジハンギル非常勤講師担当科目
Type of Class	Seminar Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	CIHANGIR ISTEK
Course of Media Class	Applicable（Undergraduate students can include up to 60 credits in media class course as requirements for graduation.）

※About Course of Media Class
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Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Introduction to Human-Centered Design
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork) Experience/practice: Learning from experience- and practice-based activities, and feedback on such activities (e.g., solving problems; laboratory work using instruments; on-campus and off-campus practical training; skills practice including sporting skills; project-based learning; internship) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works,

	portfolio development) The course will be given with two different, but complementary focuses: (1) Thoughts/Inspirations: Principles and Methods (Online Lectures, Slides, Weekly Readings/Screenings/Listening); (2) Practices: Small Discussion Forums and/or Journaling Assignments; Student-led Online Presentations/Lessons, and Lab Project
Course Objectives	Human-Centered Design (HCD) is an approach, not a style, focusing on processes and procedures of design in order to attempt to actively involve all stakeholders - actors (e.g. employees, partners, customers, citizens, end users) in the process to help ensure the result meets their needs and is usable. In this course, students will learn the principles and patterns that they can adopt to different contexts, different people. Through the theme of this course, the purpose is to focus on enabling the meaningful participation of people and the understanding of how we can move from designing for people to “designing with them”.
Learning Goals	**1** Comprehend the principles and patterns of Human-Centered design and research that can be adopted to different contexts, different people. **2** Learn how the process of Human-Centered design and research actually happens by enabling the meaningful participation of people. **3** Be able to apply the methods and tools of the Human-Centered design and research to case studies. to understand how we can move from designing for people to “designing with them”.
Requirements, Prerequisites	-Target students: All faculties except Medicine. 1st and 2nd year undergraduate students are not allowed. -Interest in design, visualization and design management -Motivation and enthusiasm in critical thinking and human-centered problem solving -Basic online/offline Skills (research, editing, technological etc.)
Attendance and Student Conduct Policy	This course requires 70% attendance. Students who exceed the three weeks of absence are deemed to fail the course unless they withdraw.
Class Plan	**1st** Title:Overview to the Course What is This Course About? Introduction to the online course platform on CLE Instructor : Cihangir Istek Independent Study Outside of Class : None **2nd** Title:Foundations Definition and Values Instructor : Cihangir Istek Independent Study Outside of Class : Discussion Forum: Formation of Case Study Topics **3rd** Title:Foundations Roles and Principles Instructor : Cihangir Istek Independent Study Outside of Class : Discussion Forum: Case Study Topics **4th** Title:Mindsets About the Mindsets Instructor : Cihangir Istek

	Independent Study Outside of Class : Response Slide: Case Study as a Process informed by Research
5th	Title:Mindsets
	Valuing Many Perspectives
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Response Slide: Valuing Many Perspectives in Case Study Research Process
6th	Title:Mindsets
	Learning Through Doing
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Response Slide: Integrating the Practices of Learning Through Doing in Case Study Research Process
7th	Title:Process and Methods
	Reviewing Students' Case Study Processes
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Revisions to Students' Case Study Processes
8th	Title:Process and Methods
	Build the Condition
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Response Slide: Creating "Identity and Vision Statement"
9th	Title:Process and Methods
	Immerse and Align; Discover
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Response Slide: Building Your "Discovery Framework"
10th	Title:Process and Methods
	Design
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Response Slide: Creating Your Design Hypothesis to Come up with a Change Proposition and Testing Your Plans
11th	Title:Process and Methods
	Test and Refine
	Instructor : Cihangir Istek
	Independent Study Outside of Class : Same as above.
12th	Title:Process and Methods
	Implement and Learn

		Instructor : Cihangir Istek
		Independent Study Outside of Class : Submission of "Case Studies 'Presentation' Material for Online Session" by Students
	13th	Title:Deliverables
		Student-led Case Studies Presentations in Online Session 1
		Instructor : Cihangir Istek
		Independent Study Outside of Class : Discussion Forum: Students Feedback to presentations
	14th	Title:Deliverables
		Student-led Case Studies Presentations in Online Session 2
		Instructor : Cihangir Istek
		Independent Study Outside of Class : Discussion Forum: Students Feedback to presentations
	15th	Title:Deliverables
		Student-led Case Studies Presentations in Online Session 3
		Instructor : Cihangir Istek
		Independent Study Outside of Class : Discussion Forum: Students Feedback to presentations
	16th	Title:Submission
		Case Studies 'Final Documentation' by Students
		Instructor : No class meeting
		Independent Study Outside of Class : Compilation of Case Studies 'Final Documentation'

Textbooks

Reference

(1) Papanek, V., 1984. Design for the Real World: Human Ecology and Social Change. London: Thames & Hudson.
(2) Brown T., 2019. Change by Design. HarperCollins Publishers.
(3) McKercher K. A., 2020. Beyond Sticky Notes: Co-Design for Real: Mindsets, Methods and Movements. Published by Beyond Sticky Notes.

(*More references will be introduced during the course)

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Discussion Forums	Response Slides	Case Study	Presentation	Report/paper
Learning Goals1	○				○
Learning Goals2		○	○	○	○
Learning Goals3		○			○
Allocation of Marks	6%	24%	20%	20%	30%

Additional Information on Grading

Case Study Topic Proposals/Presentation (10%)
Case Study 'Interim' Submission (20%)
Case Study 'Interim' Presentation (10%)
Case Study 'Final' Submission (30%)
Discussion Forums and Response Slides (30%)

Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website：https://acs.hacc.osaka-u.ac.jp Tel　　: 06-6850-6107 E-mail　: campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	Please email for an appointment.
Course Conducted by Instructors with Practical Experience	As an architect and designer, the instructor has been involved in various domestic and international projects, presentations, designs, production, installations, lectures, presentations, etc. Also, From 2015 to 2019, he contributed to the international community as vice chair of the board of directors of the International Council of Design (ICoD), which represents creators. The instructor uses this experience to put challenges into practice and holds classes and workshops to help students improve their design skills.

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Cihangir Istek	いすてっき　じはんぎる	Center for Global Initiatives			istek.c.cscd@osaka-u.ac.jp, icistek@gmail.com

Cautions for Students

シラバス参照

<<Last Updated:2025/03/07>>

Course Schedule Information

Course Code	88A506
Semester	Fall Term
Day and Period	Other
Course Name (Japanese)	国際交流特別講義２（生物発想化学工学１）
Course Name	International Exchange Special Lecture 2 (Bio-Inspired Chemical Engineering 1)
Capacity	0
Room	
Course Numbering Code	88INES9U105
Required/Optional	バーチャル留学プログラム科目 基_290851（On-demand）
Type of Class	Lecture Subject,Seminar Subject
Credits	1.0
Student Year	1,2,3,4,5,6
Instructor	UMAKOSHI Hiroshi
Course of Media Class	Not Applicable

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Detailed Syllabus Information

Course Subtitle	Bioseparation
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)

Course Objectives	The bio-system has a variety of efficient and potential functions to adapt itself to the given environment. In the "bio-system", an efficient and selective strategy to produce valuable materials has been employed by utilizing their self-organizing nature, while a strategy with higher consumption of materials and energy must be selected in the "artificial system" utilized in the conventional chemical/bio process. The most essential and important aspect in the "bio-system" is the use of "self-organizing system". In this lecture, review will be given on the new direction of chemical engineering, inspired by the bio-systems through the utilization of nature and function of the self-organizing system. This course includes the lectures for the basic and systematic information on the biofunctional materials design, the pair-work and/or discussion for the creation of new idea to develop their faculty.
Learning Goals	**1** At the end of this lecture, students will be able to - Explain the basic characteristics of bio-elemental materials and (model) biomembrane. - Contrast the conventional bioseparation using phase-separating system and “bio-inspired” separation utilizing self-organizing system, focusing on their characteristics - Understand the cutting-edge of the conventional and next materials design - Understand the basic concept and strategy of B-ICE for next chemical engineering from both microscopic and macroscopic viewpoints. - Classify the basic and systematic information of B-ICE through the Lectures - Explain the basic concept of B-ICE based on the Individual Case Study - Display their Comment based on the basic skills on discussion / communication in General Discussion
Requirements, Prerequisites	Attendance, Presentation and Proposal
Attendance and Student Conduct Policy	Please contact the Graduate Students Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.
Class Plan	**1st** Title:Overview Overview of Bio-Inspired Chemical Engineering Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **2nd** Title:Fundamentals Basic Information of Amphiphilic Biomolecules and Their Self-Assemblies Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **3rd** Title:Basic Science in "Bio-Inspired Chemical Engineering" (1) Physicochemical Properties of Systems Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **4th** Title:Basic Science in "Bio-Inspired Chemical Engineering" (1) Physicochemical Properties of Targets Instructor :

	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
5th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (1)
	Bioseparation
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
6th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (2)
	Bioanalysis
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
7th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (3)
	Medical Application
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
8th	Title:Examination
	Examination
	Instructor :
	Independent Study Outside of Class : Investigation of all contents of this course

Textbooks	Some references will be supplied in each lecture.
Reference	Reference will be introduced in each lecture.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	**Self-Feedback**	**Mini-Report**	**Report/paper**		
Learning Goals1	○	○	○		
Allocation of Marks	50%	25%	25%		

Additional Information on Grading	50% Self-Feedback, 25% Mini Report (Concept Mapping/Contrast), 25% Final Report (Research Proposal)
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.

	Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	This lecture is one of lecture series on "Bio-Inspired Chemical Engineering". Bio-inspired Chemical Engineering 1 will focus on Conventional Bio-Chemical Engineering (Bioseparation) and Bio-Inspired Chemical Engineering 2 will focus on cutting-edge of Bio-Inspired Chemical Engineering. Student can download "Course Outline" of B-ICE1 and B-ICE2 on the following web. https://1drv.ms/u/s!AsJWITSxR11shoNSM5U6-zf2dHoE6Q?e=VyAsGy When students with disabilities take this course and request reasonable accommodation, please contact the Graduate Students Section or the instructor in advance and discuss the concerns.
Office Hours	16:00-17:00, Friday C329 Umakoshi 16:20-17:50, Friday C335 Okamoto
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Hiroshi Umakoshi			C329	6287	umakoshi.hiroshi.es@osaka-u.ac.jp
Nozomi Watanabe			C-331	6285	no.watanabe.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/03/07>>

Course Schedule Information

Course Code	88A508
Semester	Winter Term
Day and Period	Other
Course Name (Japanese)	国際交流特別講義２（生物発想化学工学２）
Course Name	International Exchange Special Lecture 2 (Bio-Inspired Chemical Engineering 2)
Capacity	0
Room	
Course Numbering Code	88INES9U105
Required/Optional	バーチャル留学プログラム科目 基_290852（On-demand）
Type of Class	Lecture Subject,Seminar Subject
Credits	1.0
Student Year	1,2,3,4,5,6
Instructor	UMAKOSHI Hiroshi
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Bio-Inspired Chemical Engineering
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)

Course Objectives	The bio-system has a variety of efficient and potential functions to adapt itself to the given environment. In the "bio-system", an efficient and selective strategy to produce valuable materials has been employed by utilizing their self-organizing nature, while a strategy with higher consumption of materials and energy must be selected in the "artificial system" utilized in the conventional chemical/bio process. The most essential and important aspect in the "bio-system" is the use of "self-organizing system". In this lecture, review will be given on the new direction of chemical engineering, inspired by the bio-systems through the utilization of nature and function of the self-organizing system. This course includes the lectures for the basic and systematic information on the biofunctional materials design, the pair-work and/or discussion for the creation of new idea to develop their faculty.
Learning Goals	**1** At the end of this lecture, students will be able to - Explain the basic characteristics of bio-elemental materials and (model) biomembrane. - Contrast the conventional bioseparation using phase-separating system and “bio-inspired” separation utilizing self-organizing system, focusing on their characteristics - Understand the cutting-edge of the conventional and next materials design - Understand the basic concept and strategy of B-ICE for next chemical engineering from both microscopic and macroscopic viewpoints. - Classify the basic and systematic information of B-ICE through the Lectures - Explain the basic concept of B-ICE based on the Individual Case Study - Display their Comment based on the basic skills on discussion / communication in General Discussion
Requirements, Prerequisites	Attendance, Presentation and Proposal
Attendance and Student Conduct Policy	Please contact the Graduate Students Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.
Class Plan	**1st** Title:Overview Overview of Bio-Inspired Chemical Engineering Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **2nd** Title:Fundamentals Basic Information of Amphiphilic Biomolecules and Their Self-Assemblies Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **3rd** Title:Basic Science in "Bio-Inspired Chemical Engineering" (1) Physicochemical Properties of Systems Instructor : Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture. **4th** Title:Basic Science in "Bio-Inspired Chemical Engineering" (1) Physicochemical Properties of Targets Instructor :

	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
5th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (1)
	Bioseparation
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
6th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (2)
	Bioanalysis
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
7th	Title:Cutting Edge of "Bio-Inspired Chemical Engineering" (3)
	Medical Application
	Instructor :
	Independent Study Outside of Class : Reference will be introduced in each lecture. Students should better to read the reference before and after each lecture.
8th	Title:Final proposal
	Final proposal (Final report with short presentation)
	Instructor :
	Independent Study Outside of Class : Investigation of all contents of this course

Textbooks	Some references will be supplied in each lecture.
Reference	Reference will be introduced in each lecture.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	**Self-Feedback**	**Mini-Report**	**Report/paper**		
Learning Goals1	○	○	○		
Allocation of Marks	50%	25%	25%		

Additional Information on Grading	50% Self-Feedback, 25% Mini Report (Concept Mapping/Contrast), 25% Final Report (Research Proposal)
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.

	Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	This lecture is one of lecture series on "Bio-Inspired Chemical Engineering". Bio-inspired Chemical Engineering 1 will focus on Conventional Bio-Chemical Engineering (Bioseparation) and Bio-Inspired Chemical Engineering 2 will focus on cutting-edge of Bio-Inspired Chemical Engineering. Student can download "Course Outline" of B-ICE1 and B-ICE2 on the following web. https://1drv.ms/u/s!AsJWITSxR11shoNSM5U6-zf2dHoE6Q?e=VyAsGy When students with disabilities take this course and request reasonable accommodation, please contact the Graduate Students Section or the instructor in advance and discuss the concerns.
Office Hours	16:00-17:00, Friday C329 Umakoshi 16:20-17:50, Friday C335 Okamoto
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Hiroshi Umakoshi			C329	6287	umakoshi.hiroshi.es@osaka-u.ac.jp
Yukihiro Okamoto			C335	6288	okamoto.yukihiro.es@osaka-u.ac.jp
Nozomi Watanabe			C-331	6285	no.watanabe.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/20>>

Course Schedule Information

Course Code	88A513
Semester	Fall Term
Day and Period	Other
Course Name (Japanese)	国際交流特別講義２（数理概論3）
Course Name	International Exchange Special Lecture 2(Topics in Mathematical Sciences 3)
Capacity	0
Room	
Course Numbering Code	88INES9U105
Required/Optional	バーチャル留学プログラム科目 オンデマンド授業 基_290824
Type of Class	Lecture Subject,Seminar Subject
Credits	1.0
Student Year	1,2,3,4,5,6
Instructor	矢野　裕子
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Weak convergence and central limit theorems
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	Students will learn mathematics and mathematical sciences in English and develop the ability to study various mathematical science topics on their own. In this course, students will learn about weak convergence and central limit theorems in English. Lectures are given mainly in English. Students are required to write assignments, such as reports, in English.

Learning Goals	**1**	To learn various topics in the mathematical sciences in English and to be able to read books and articles written in English on their own.
Requirements, Prerequisites	Calculus and linear algebra should be known. Understanding the Lebesgue integral theory is preferable.	
Attendance and Student Conduct Policy	Please contact the Student Affairs Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.	
Class Plan		

1	Title:
	Introduction / The De Moivre-Laplace theorem
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
2	Title:
	Weak convergence (1)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
3	Title:
	Weak convergence (2)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
4	Title:
	Characteristic functions (1)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
5	Title:
	Characteristic functions (2)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
6	Title:
	Central limit theorems
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
7	Title:
	Related topics
	Instructor :

		Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
	8	Title:
		Summary
		Instructor :
		Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.

Textbooks	Lecture materials will be posted on the CLE.
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	This is an online class. (real-time class delivered by zoom) For more information, check the CLE for the class.
Office Hours	Make an appointment by email.
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
YANO, Yuko	やの　ゆうこ	Graduate School of Engineering Science			y.yano.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/21>>

Course Schedule Information

Course Code	88A514
Semester	Winter Term
Day and Period	Other
Course Name (Japanese)	国際交流特別講義２（数理概論4）
Course Name	International Exchange Special Lecture 2(Topics in Mathematical Sciences 4)
Capacity	0
Room	
Course Numbering Code	88INES9U105
Required/Optional	バーチャル留学プログラム科目 オンデマンド授業 基_290825
Type of Class	Lecture Subject,Seminar Subject
Credits	1.0
Student Year	1,2,3,4,5,6
Instructor	矢野　裕子
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Brownian motion
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	Students will learn mathematics and mathematical sciences in English and develop the ability to study various mathematical science topics on their own. In this course, students will learn about Brownian motion in English. Lectures are given mainly in English. Students are required to write assignments, such as reports, in English.

Learning Goals	**1**	To learn various topics in the mathematical sciences in English and to be able to read books and articles written in English on their own.
Requirements, Prerequisites	Calculus and linear algebra should be known. Understanding the Lebesgue integral theory is preferable.	
Attendance and Student Conduct Policy	Please contact the Student Affairs Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.	
Class Plan		

1	Title:
	Introduction
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
2	Title:
	Definition and construction of Brownian motion
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
3	Title:
	Markov property (1)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
4	Title:
	Markov property (2)
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
5	Title:
	Stopping times, strong Markov property
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
6	Title:
	Path properties
	Instructor :
	Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
7	Title:
	Martingales
	Instructor :

		Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.
	8	Title:
		Summary
		Instructor :
		Independent Study Outside of Class : Looking back the lecture. Solving exercises given in the lecture.

Textbooks	Lecture materials will be posted on the CLE.
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	This is an online class. (real-time class delivered by zoom) For more information, check the CLE for the class.
Office Hours	Make an appointment by email.
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
YANO, Yuko	やの　ゆうこ	Graduate School of Engineering Science			y.yano.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/01/11>>

Course Schedule Information

Course Code	005022
Semester	Fall and Winter Term
Day and Period	Thu3
Course Name (Japanese)	ドイツ文学Ⅱ講義
Course Name	German Literature Ⅱ L.
Course Numbering Code	00HUMA2A304
Required/Optional	
Type of Class	Lecture Subject
Credits	2.0
Student Year	2,3,4
Instructor	WASSMER JOHANNES
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	The Enlightenment in Europe
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Course Objectives	In the lecture series an overview of the era of Enlightenment will be given from its starting point in the late 17th century up to its influence it still has today in contemporary culture, literature, art, and politics. The term ‘Enlightenment’ refers to several developments that started with René Descartes dictum “I think, therefore I am”. This put the individual and its mind into the center. Philosophical rationalism was born. Rationalism became a major force in the evolution of the Sciences around 1700 in Isaac Newton and Gottfried Wilhelm Leibniz, in the foundation of epistemological and ethical principles in Kant, in claims for new ethical principles in art and literature like in Gotthold Ephraim Lessing’s plays or in Friedrich Schiller’s early writings, in political revolutions like the French Revolution in 1789. With the Enlightenment, one could conceptualize the relation between the individual and the society in a new way. Jean-Jacques Rousseau

	and John Locke, i.a., contributed important theories of a social contract. In the lecture series we will discuss the history of Enlightenment in literature, culture, philosophy, and the sciences. We will also look at its negative consequences: In the era of Enlightenment the European states began to found colonies, to slave trade and to exploit people that they deemed less developed and rational. With a view on Theodor W. Adorno's and Max Horkheimer's Dialectic of Enlightenment we will discuss those problematic aspects of the Enlightenment. With this, we will seek answers how a concept that claims to be humanistic can become a concept justifying utmost inhuman behaviour.
Learning Goals	**1** In the lecture series the participants get an overview over the era of Enlightenment, they get to know its different dimensions and will learn about its protagonists as well as they will have read in class some of the key texts in culture, philosophy, and, with a focus, literature.
Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	

1st	Title:1
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
2nd	Title:2
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
3rd	Title:3
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
4th	Title:4
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
5th	Title:5
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
6th	Title:6
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
7th	Title:7
	The topics will be determined in discussion with the participants.
	Independent Study Outside of Class : Reading the relevant texts in advance.
8th	Title:8

		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	9th	Title:9
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	10th	Title:10
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	11th	Title:11
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	12th	Title:12
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	13th	Title:13
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	14th	Title:14
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.
	15th	Title:15
		The topics will be determined in discussion with the participants.
		Independent Study Outside of Class : Reading the relevant texts in advance.

Textbooks	
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Allocation of Marks	40%	60%			

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section,

	Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	jederzeit, mit einer Vereinbarung per Mail
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
No data found					

Cautions for Students

シラバス参照

<<Last Updated:2025/02/28>>

Course Schedule Information

Course Code	090704
Semester	Fall Term
Day and Period	Fri4
Course Name (Japanese)	Chemical Engineering Science 1
Course Name	Chemical Engineering Science 1
Capacity	0
Room	School of Engineering Science/Lecture Room B202
Course Numbering Code	09CHEN9J412
Type of Class	Lecture Subject
Credits	1.0
Student Year	2,3,4
Instructor	UMAKOSHI Hiroshi,WATANABE Nozomi
Course of Media Class	Applicable（Undergraduate students can include up to 60 credits in media class course as requirements for graduation.）

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Introduction to Chemical Engineering Science : Basic and Bio-Inspired Approach
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	The basics of chemical engineering are introduced. By employing chemical process as a case study, students will understand a conventional strategy on "Chemical Engineering": (i) Mass Balance (Unit Operations), (ii) Physico-Chemical Approach (Transport Phenomena / Equilibrium), (iii) Process Design. At the final stage, students will learn (iv) a new strategy utilizing self-organizing system, called as "Bio-Inspired Chemical Engineering".

<table>
<tr><td>Learning Goals</td><td>
<table>
<tr><td>1</td><td>- Students will be able to understand the basic and conventional strategy of Chemical Engineering</td></tr>
<tr><td>2</td><td>- Students will be able to contrast the above strategy and a new strategy with "Bio-Inspired" approach</td></tr>
<tr><td>3</td><td>- Students will be able to imagine how they could pioneer a new philosophy of their own</td></tr>
</table>
</td></tr>
<tr><td>Requirements, Prerequisites</td><td>Nothing Special (Students do not have to study prior to this lecture. Lecture will focus on "Chemical Process Design" that most of students would not be interested. But, try to understand "Its Strategy" and to think of its application to your study/research. So, please do not hesitate to join us !)</td></tr>
<tr><td>Attendance and Student Conduct Policy</td><td>Brief-Report, Brief Essay and Mini-examination are required.</td></tr>
<tr><td>Class Plan</td><td>
<table>
<tr><td rowspan="5">1st</td><td>Title:Background</td></tr>
<tr><td>What's Chemical Engineering and Chemical Engineering Science ?</td></tr>
<tr><td>Instructor :</td></tr>
<tr><td>Room :</td></tr>
<tr><td>Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".</td></tr>
<tr><td rowspan="5">2nd</td><td>Title:Scientist's Approach (1)</td></tr>
<tr><td>Transport Phenomena (Mass)</td></tr>
<tr><td>Instructor :</td></tr>
<tr><td>Room :</td></tr>
<tr><td>Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".</td></tr>
<tr><td rowspan="5">3rd</td><td>Title:Scientist's Approach (2)</td></tr>
<tr><td>Phase Equilibrium</td></tr>
<tr><td>Instructor :</td></tr>
<tr><td>Room :</td></tr>
<tr><td>Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".</td></tr>
<tr><td rowspan="5">4th</td><td>Title:Engineer's Approach (1)</td></tr>
<tr><td>Mass Balance for Unit Operations</td></tr>
<tr><td>Instructor :</td></tr>
<tr><td>Room :</td></tr>
<tr><td>Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".</td></tr>
<tr><td rowspan="5">5th</td><td>Title:Engineer's Approach (2)</td></tr>
<tr><td>Let's Design Chemical Process [1] Distillation</td></tr>
<tr><td>Instructor :</td></tr>
<tr><td>Room :</td></tr>
<tr><td>Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".</td></tr>
</table>
</td></tr>
</table>

	6th	Title:Engineer's Approach (3)
		Let's Design Chemical Process [2] Chemical Process
		Instructor :
		Room :
		Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".
	7th	Title:Engineering Scientist's Approach
		Cutting-edge for NEXT Chemical Process ~Bio-Inspired Chemical Engineering Science~
		Instructor :
		Room :
		Independent Study Outside of Class : Relating information will be provided at each lecture as a "Further Reading".

Textbooks	Relating documents will be provided at each lecture. Separation Process Principles (2nd Ed.), J. D. Seader and Ernest J. Henley , John Wiley and Sons, Inc.
Reference	References will be provided at each lecture in a "Further Reading" document.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Self-Feedback	Mini-Essay	Final exam		
Learning Goals1	○	○	○		
Learning Goals2	○	○	○		
Learning Goals3	○	○	○		
Allocation of Marks	40%	40%	20%		

Additional Information on Grading	Brief-Report (Lecture (2)-(6)): 40%, Mini-Essay (Lecture (1) and (7)): 40%, Mini-Examination: 20%
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	All the lectures will be given "on-demand" by using Osaka University CLE. So, students will be able to join to this course at any time during the "Winter" term (in OU academic calendar). However, students will have to pay their attentions to "Deadline" of "Brief-Report", "Mini-Essay", and "Mini-Examination". All of them would be automatically closed after the deadline.
Office Hours	Friday 17:00-18:00 (JST) But, "commenting" at the "free comment column" at "Brief-Report" and "Mini-Essay" is recommended because this class will be held at "on-demand" style

Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Hiroshi UMAKOSHI		Engineering Science/Professor	C-329	6287	umakoshi.hiroshi.es@osaka-u.ac.jp
Nozomi WATANABE		Engineering Science/ Assistant Professor	C-331	6285	no.watanabe.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/03/01>>

Course Schedule Information

Course Code	090705
Semester	Winter Term
Day and Period	Fri4
Course Name (Japanese)	Chemical Engineering Science 2
Course Name	Chemical Engineering Science 2
Capacity	0
Room	School of Engineering Science/Lecture Room B202
Course Numbering Code	09CHEN9J412
Type of Class	Lecture Subject
Credits	1.0
Student Year	2,3,4
Instructor	MATSUBAYASHI Nobuyuki,NISHIYAMA Norikazu,UMAKOSHI Hiroshi
Course of Media Class	Applicable（Undergraduate students can include up to 60 credits in media class course as requirements for graduation.）

※About Course of Media Class
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Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	A variety of molecular self-assemblies that constitute the chemical processes are rich in diversity, such as micelles, bicelles, nanoemulsions, liposomes, vesicles, hexagonal assemblies, cubic assemblies, and lamellar assemblies. Molecular assemblies are not only used as important nano-chemical materials, but also applied to bio-/biomedical fields, such as nanocarriers in DDS, food engineering, and cosmetics. Series of lectures will be given focusing on cutting-edge research on the basics and applications of molecular assemblies from a chemical engineering perspective.
Learning Goals	**1** Students will be able to - understand diversity of molecular self-assemblies

	- understand three approaches (in Silico, Soft, Hard) systematically - contrast the strategy of Chemical Engineering and Chemical Engineering Science - imagine how they could pioneer a new philosophy of their own
Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	**1st** Title:
	Students will be able to understand strategic approaches Course Outline and Introduction of Molecular Self-Assembly: Basic Concept of Chemical Engineering Science) and Diversity of Molecular Self-Assembly in Advanced Science "in-Silico" Molecular Self-Assembly: Fundamentals of Molecular Self-Assembly Revealed by Computational Chemistry Application of Molecular Self-Assembly Based on Computational Chemistry "Soft" Molecular Self-Assembly: Fundamentals of meso-Scale Physicochemical Properties of Molecular Self-Assembly Design of Molecular Self-Assembly Based on meso-Scale Physicochemical Properties "Hard" Molecular Self-Assembly Fundamentals of Molecular Self-Assembly from the Viewpoint of Material Chemical Engineers Design of Functiuonal Nano Materials Utilizing Molecular Self-Assembly
	Instructor :
	Room :
	Independent Study Outside of Class : Instructions are provided in class when necessary.
Textbooks	
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Allocation of Marks	80%	20%			

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.

	Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Nobuyuki MATSUBAYASHI					
Norikazu NISHIYAMA					
Hiroshi UMAKOSHI					

Cautions for Students

シラバス参照

<<Last Updated:2025/02/28>>

Course Schedule Information

Course Code	090706
Semester	Winter Term
Day and Period	Thu4
Course Name (Japanese)	Chemical Engineering Science 3
Course Name	Chemical Engineering Science 3
Capacity	0
Room	School of Engineering Science/Lecture Room B104
Course Numbering Code	09CHEN9J410
Type of Class	Lecture Subject
Credits	1.0
Student Year	2,3,4
Instructor	MIZUGAKI Tomoo
Course of Media Class	Applicable（Undergraduate students can include up to 60 credits in media class course as requirements for graduation.）

※About Course of Media Class
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Detailed Syllabus Information

Course Subtitle	Introduction to Catalytic Chemistry
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) On-demand
Course Objectives	The main objective of this course is to provide a better understanding of the scientific basis and applications of catalytic chemistry. The introduction contains the history of the development of catalysis and describe how catalysts are used in relation to the development of society. In particular, the course will help students understand the relationship between the chemical industry, resources, energy, and environmental issues and catalysis, and will also introduce current state-of-the-art catalytic research. Student proposals and discussions will be required.

Learning Goals	**1**	By the end of this course, you should be able to : 1. explain the fundamentals of catalytic chemistry, 2. describe the the importance of catalysis in relation to resource and energy issues.
Requirements, Prerequisites		
Attendance and Student Conduct Policy	Final evaluation will be based on short quiz, short reports.	
Class Plan		
	1st	Title:Introduction
		an overview of this course: fundamentals of catalytic chemistry
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	2nd	Title:Global problems
		economy, natural resource, wastes, energy…
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	3rd	Title:Catalysis and Chemical Industry 1
		petroleum and natural gas process
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	4th	Title:Catalysis and Chemical Industry 2
		organic chemicals, inorganic chemicals
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	5th	Title:Catalysis and Green Chemistry
		History of Green Chemistry, Sustainble Chemistry, and GSC
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	6th	Title:Catalysis for utilization of natural renewable resource
		Biomass conversion

		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz
	7th	Title:Catalysis for plastic economy, wrap-up
		the challenge of plastics recycling and upcycling
		Instructor : Tomoo MIZUGAKI
		Room : on-demand
		Independent Study Outside of Class : quiz and a short report

Textbooks	Additional reading material will be posted before the lectures.
Reference	Additional reading material will be posted before the lectures.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Quiz	Report/paper	Learning engagement		
Learning Goals1	○	○	○		
Allocation of Marks	30%	30%	40%		

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	The technical depth of the content will be adjusted depending on the background knowledge of the students in the class. The various topics will be studied not only from the stand point of chemistry, but social sciences, basic sciences and engineering.
Office Hours	Students are encouraged to send an e-mail for any questions related to the material covered in the class.
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail

Tomoo MIZUGAKI	みずがき　ともお	Department of Materials Engineering Science, Professor	C-429	6260	mizugaki.tomoo.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/03/04>>

Course Schedule Information

Course Code	090751
Semester	Intensive
Day and Period	Other
Course Name (Japanese)	Frontier Engineering Science 2
Course Name	Frontier Engineering Science 2
Capacity	0
Room	
Course Numbering Code	09CHEM3Z002,09CHEN3Z002,09CSSS3Z002,09MASC3Z002,09MESC3Z002,09BIEN3Z002,09INSS3Z002,09ELEC3Z002,09MAPH3Z002
Type of Class	Lecture Subject
Credits	1.0
Student Year	2,3,4
Instructor	UMAKOSHI Hiroshi,Each Supervisor
Course of Media Class	Not Applicable

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Detailed Syllabus Information

Course Subtitle	Science of Coffee (Tentative Title) by Tonya L Kuhl (Professor, College of Engineering, UC Davis / Special Appointed Professor (Cross Appointment), The University of Osaka)
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	The purpose of this course is to pursue the fundamental concepts and practical methods in Engineering Science. The lecture will be given in English by faculty and/or researcher in partner organization and university.

Learning Goals	**1**	To understand the connection between the frontline research subjects in Engineering Science and its extension and/or application in academic and/or industrial society
Requirements, Prerequisites	Basic knowledge of Engineering Science	
Attendance and Student Conduct Policy	Please contact the Graduate Students Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.	
Class Plan		
	1st	Title:Science of Coffee (1) (Tentative)
		Overview / What is coffee (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (1)
	2nd	Title:Science of Coffee (2) (Tentative)
		Coffee Arabica vs Rubusta (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (2)
	3rd	Title:Science of Coffee (3) (Tentative)
		Harvest / Roasting / Brewing Espresso (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (3)
	4th	Title:Science of Coffee (4) (Tentative)
		Coffee and Society / Health and Coffee / Decaffeination (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (4)
	5th	Title:Science of Coffee (5) (Tentative)
		Food society and Regulations (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (5)
	6th	Title:Science of Coffee (6) (Tentative)
		Current Research (Tentative)

		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (6)
	7th	Title:Science of Coffee (7) (Tentative)
		Debriefing (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (7)

Textbooks	Hand-out materials are to be distributed.(Tentative)
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Self-Feedback	Report/paper			
Learning Goals1	○	○			
Allocation of Marks	40%	60%			

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	When students with disabilities take this course and request reasonable accommodation, please contact the Graduate Students Section or the instructor in advance and discuss the concerns. Students can join the "Coffee Lab" experience outside class.
Office Hours	
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail

Hiroshi UMAKOSHI		Professor	C-329	6287	umakoshi.hiroshi.es@osaka-u.ac.jp
Nozomi Watanabe		Assistant Professor	C-331	6285	no.watanabe.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/01/24>>

Course Schedule Information

Course Code	100496
Semester	Fall and Winter Term
Day and Period	Fri2
Course Name (Japanese)	【専攻科目】ヒンディー語学演習Ib
Course Name	Hindi Language Ib
Room	School of Foreign Studies/409 HALC
Course Numbering Code	10FOST3B900
Type of Class	Seminar Subject
Credits	2.0
Student Year	3,4
Instructor	NISHIOKA Miki
Course of Media Class	Not Applicable

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Detailed Syllabus Information

Course Subtitle	Aspects of Hindi advanced grammar-2
Language of the Course	Japanese
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Course Objectives	The course provides basic knowledge of the traditional grammatical framework and terminology of Hindi, enables students to read articles on Hindi and linguistics, and to develop an awareness of issues related not only to Hindi, but also to 'language' in general.
Learning Goals	**1** Students will be able to read and understand academic articles on language research written in Hindi, based on an understanding of the traditional grammatical system of the Hindi language.

	2	Students will be able to develop a perspective on comparative research with the Japanese language (or their own mother languages).
Requirements, Prerequisites	1. Students should have already completed primary and intermediate Hindi or have equivalent Hindi language competence. 2. Students who have completed Hindi Language Ia are desirable.	
Attendance and Student Conduct Policy	If the absences exceed one-third of the total number of classes, the student shall be ineligible to take the regular examinations at that time. If there are unavoidable circumstances, such as job hunting, the student should consult the teacher in charge in advance.	
Class Plan		

Session 1	Title:Hindi Traditional Grammar (word-3)
	Tense (kaal)
	Independent Study Outside of Class : Students should read through the first page of the text on the CLE.
Session 2	Title:Hindi Traditional Grammar (word-3)
	Voice (vaachya) Root and stem (dhaatu)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 3	Title:Hindi Traditional Grammar
	Orthography (Hindi vartanii)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 4	Title:Hindi Traditional Grammar
	Particle (nipaat)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 5	Title:Hindi Traditional Grammar
	Punctuation (viraam chihn)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 6	Title:Hindi Traditional Grammar
	Prefix (upsarg)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 7	Title:Hindi Traditional Grammar
	Suffix (pratyay) Sandhi (sandhi)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.

Session 8	Title:Hindi Traditional Grammar
	Compound word (samaas)
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 9	Title:Hindi Traditional Grammar
	The mid-term examination
	Independent Study Outside of Class : Be adequately prepared for the examination.
Session 10	Title:Hindi Traditional Grammar
	Article reading on 'Pronouns'
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 11	Title:Hindi Language and Linguistics
	Article reading on 'Pronouns'
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 12	Title:Hindi Language and Linguistics (Scheduled online class)
	Article reading on 'Pronouns'
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 13	Title:Hindi Language and Linguistics
	Article reading on 'Pronouns'
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 14	Title:Hindi Language and Linguistics
	Article reading on 'Pronouns'
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 15	Title:Hindi Language and Linguistics
	Article reading on 'Pronouns' Feedback
	Independent Study Outside of Class : 1. Students should read the text (in Hindi) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 16	Title:Hindi Language and Linguistics
	The final examination

	Independent Study Outside of Class : Be adequately prepared for the examination.
Textbooks	Umesh Chandra Shukla. Hindi Vyakaran, Vani Prakashan, Nai Dilli, 2003. [distributed as PDF] Some paper written in Hindi [distributed as PDF]
Reference	V. R. Jagannathan. Prayog aur prayog, Oxford University Press, New Delhi, 1981. Others will be introduced in class as appropriate.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Midterm exam	Final exam	Learning engagement		
Learning Goals1	○	○	○		
Learning Goals2	○	○	○		
Allocation of Marks	30%	40%	30%		

Additional Information on Grading	1. Active participation in class (class attendance, preparation for class) [30%] 2. Online examinations (mid-term and final examinations) [70%]
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	1. Some content and progress may change depending on the level of understanding of the students. 2. Non-native speakers of Japanese need to have a language proficiency of at least JLPT N3 level to understand this course. 3. Google Classroom, Bookwidgets, etc. will be used in this course.
Office Hours	Monday: 16:20-17:50 (5th period) [Reservation is required]
Course Conducted by Instructors with Practical Experience	N/A

Instructor(s)

Instructor Name	Affiliation, Title, Course	E-mail
Miki NISHIOKA	Graduate School of Humanities, Associate professor	miki.nishioka.hmt@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/01/24>>

Course Schedule Information

Course Code	100498
Semester	Fall and Winter Term
Day and Period	Fri3
Course Name (Japanese)	【専攻科目】ヒンディー語学演習IIb
Course Name	Hindi Language IIb
Room	School of Foreign Studies/409 HALC
Course Numbering Code	10FOST3B900
Type of Class	Seminar Subject
Credits	2.0
Student Year	3,4
Instructor	NISHIOKA Miki
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Introduction to the study of South Asian languages-2
Language of the Course	Japanese
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	In this course, we will observe the morphological and syntactic features of the main South Asian languages in the light of Hindi grammar, and discuss them in relation to those of Japanese.

Learning Goals	**1**	Students will learn about the morphological and syntactic features of South Asian languages other than Hindi.
	2	Students will gain knowledge and information based on comparative or contrastive research.
	3	Students will be able to develop a comparative or contrastive research perspective.
Requirements, Prerequisites	The student should have completed the Hindi Language Ia/b and South Asian Language Ia/b and have a good knowledge of general linguistics, or equivalent academic ability, as recognized by the teacher in charge of this course.	
Attendance and Student Conduct Policy	If the absences exceed one-third of the total number of classes, the student shall be ineligible to take the regular examinations at that time. If there are unavoidable circumstances, such as job hunting, the student should consult the teacher in charge in advance.	
Class Plan	**Session 1**	Title:Syntactic Structure of the Indic Languages: Verb Phrase
		Guidance 10.7 The Verb Phrase
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 2	Title:Syntactic Structure of the Indic Languages: Verb Phrase
		10.7 The Verb Phrase
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 3	Title:Syntactic Structure of the Indic Languages: Verb Phrase
		10.7 The Verb Phrase
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 4	Title:Syntactic Structure of the Indic Languages: Verb Phrase
		10.7 The Verb Phrase
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 5	Title:Syntactic Structure of the Indic Languages: Modifications of the Simple Sentence
		10.8 Modifications of the simple sentence 10.8.1 Question formation
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 6	Title:Syntactic Structure of the Indic Languages: Modifications of the Simple Sentence
		10.8.2 Negation
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 7	Title:Syntactic Structure of the Indic Languages: Modifications of the Simple Sentence
		10.8.3 Displacement

	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 8	Title:Syntactic Structure of the Indic Languages: Modifications of the Simple Sentence
	10.8.4 Deletion
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 9	Title:Syntactic Structure of the Indic Languages: Modifications of the Simple Sentence
	10.8 Modifications of the simple sentence Feedback
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 10	Title:Syntactic Structure of the Indic Languages: Coordinate Structures with Finite or Non-finite Verbs
	10.9 Coordinate structures and the "conjunctive participle"
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 11	Title:Syntactic Structure of the Indic Languages: Complex Sentences
	10.10 Complex sentences 10.10.1 Preliminaries
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 12	Title:Syntactic Structure of the Indic Languages: Complex Sentences (Scheduled online class)
	10.10.2 Nominal clauses
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 13	Title:Syntactic Structure of the Indic Languages: Complex Sentences
	10.10.3 Adjectival clauses
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 14	Title:Syntactic Structure of the Indic Languages: Complex Sentences
	10.10.4 Adverbial clauses
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 15	Title:Syntactic Structure of the Indic Languages: Complex Sentences
	10.10.5 Conditional constructions 10.10.6 Causative constructions

		Feedback
		Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
	Session 16	Title:Syntactic Structure of the Indic Languages
		Presentation examination
		Independent Study Outside of Class : Students should summarize and present the given topics in a way that is understandable to the general public.

Textbooks	Colin P. Masica. The Indo-Aryan Languages. Cambridge University Press, 1991. George Cardona, Danesh Jain. The Indo-Aryan Languages, 2007.
Reference	Colin P. Masica. Defining A Linguistic Area: South Asia. The University of Chicago Press, 1976. Yamuna Kacharu. Aspects of Hindi Grammar, 1980. Kamta Prasad Guru. Hindi vyaakaran (Hindi Edition), 2018 [Kindle Edition]. Saartje Verbeke. Alignment and Ergativity in New Indo-Aryan Languages, 2013. Karumuri V. Subbarao. South Asian Languages: A Syntactic Typology. Cambridge University Press, 2012. Others will be introduced in class as appropriate.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Presentation	Learning engagement	Final exam		
Learning Goals1	○	○	○		
Learning Goals2	○	○	○		
Learning Goals3	○	○	○		
Allocation of Marks	30%	30%	40%		

Additional Information on Grading	1. Presentation in class [30%] 2. Active participation in class [30%] 3. The final semester examination (presentation exam) [40%]
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	1. Some content and progress may change depending on the level of understanding of the students. 2. Non-native speakers of Japanese need to have a language proficiency of at least JLPT N2 level to understand this course. 3. Google Classroom, Bookwidgets, Slack, etc. will be used in this course.
Office Hours	Monday: 16:20-17:50 (5th period) [Reservation is required]

Course Conducted by Instructors with Practical Experience	N/A

Instructor(s)

Instructor Name	Affiliation, Title, Course	E-mail
Miki NISHIOKA	Graduate School of Humanities, Associate professor	miki.nishioka.hmt@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/01/24>>

Course Schedule Information

Course Code	100510
Semester	Fall and Winter Term
Day and Period	Mon4
Course Name (Japanese)	【専攻科目】南アジア語学演習Ib
Course Name	Language of South Asia Ib
Room	School of Foreign Studies/409 HALC
Course Numbering Code	10FOST3B900
Type of Class	Seminar Subject
Credits	2.0
Student Year	3,4
Instructor	NISHIOKA Miki
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Introduction to South Asian Language Resources (2)
Language of the Course	Japanese
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	This course provides a broad base of knowledge for working with South Asian linguistic resources from a diachronic perspective.
Learning Goals	**1** Students will gain basic knowledge of the languages of South Asia in their historical aspects.

Requirements, Prerequisites	Students are expected to have gained foundational knowledge and skills in the discipline of linguistics before attempting this course.
Attendance and Student Conduct Policy	If the absences exceed one-third of the total number of classes, the student shall be ineligible to take the regular examinations at that time. If there are unavoidable circumstances, such as job hunting, the student should consult the teacher in charge in advance.
Class Plan	

Session 1	Title:The Historical Context and Development of Indo-Aryan
	Guidance Genetic connections
	Independent Study Outside of Class : Students should read through the first page of the text on the CLE.
Session 2	Title:The Historical Context and Development of Indo-Aryan
	Genetic connections Migration hypotheses and associated problems
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 3	Title:The Historical Context and Development of Indo-Aryan
	The traditional Indian view
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 4	Title:The Historical Context and Development of Indo-Aryan (Scheduled online class)
	The traditional Indian view
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 5	Title:The Historical Context and Development of Indo-Aryan
	The traditional Indian view Discussion
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 6	Title:The Historical Context and Development of Indo-Aryan
	The new linguistic environment
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 7	Title:The Historical Context and Development of Indo-Aryan (Scheduled online class)
	The new linguistic environment Discussion
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.

Session 8	Title:The Historical Context and Development of Indo-Aryan
	The mid-term examination
	Independent Study Outside of Class : Be adequately prepared for the examination.
Session 9	Title:The Historical Context and Development of Indo-Aryan
	Subsequent spread of Indo-Aryan in the subcontinent and beyond
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 10	Title:The Historical Context and Development of Indo-Aryan
	Subsequent spread of Indo-Aryan in the subcontinent and beyond
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 11	Title:The Historical Context and Development of Indo-Aryan
	'Foreign influences and contacts'
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 12	Title:The Historical Context and Development of Indo-Aryan
	'The historical stages of Indo-Aryan'
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 13	Title:The Historical Context and Development of Indo-Aryan
	Sociolinguistic aspects of the history of Indo-Aryan
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 14	Title:The Historical Context and Development of Indo-Aryan
	Comparative reconstruction Feedback
	Independent Study Outside of Class : 1. Students should read the text (in English) and prepare for the class. 2. Students are expected to supplement their technical knowledge by reading references.
Session 15	Title:The Historical Context and Development of Indo-Aryan
	Group presentation
	Independent Study Outside of Class : Students are required to prepare a group presentation.
Session 16	Title:The Historical Context and Development of Indo-Aryan
	The final examination
	Independent Study Outside of Class : Be adequately prepared for the examination.

Textbooks	Colin P. Masika, Indo-Aryan Languages. Cambridge University Press, 1991. [Distributed as PDF]
Reference	George Cardona and Dhanesh Jain (ed.). The Indo-Aryan Languages. Routledge, 2003. Others will be introduced in class as appropriate.
Grading Policy ***Hover the mouse over the number of a learning goal to view the full text of it.**	<table><tr><th>Evaluation Methods</th><th>Midterm exam</th><th>Final exam</th><th>Learning engagement</th><th>Group presentation and others</th><th></th></tr><tr><td>Learning Goals1</td><td>○</td><td>○</td><td>○</td><td>○</td><td></td></tr><tr><td>Allocation of Marks</td><td>30%</td><td>30%</td><td>30%</td><td>10%</td><td></td></tr></table>
Additional Information on Grading	1. Active participation in class (class attendance, preparation for class) [30%] 2. Online examinations (mid-term and final examinations) + Group presentation and others [70%]
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	1. Some content and progress may change depending on the level of understanding of the students. 2. Non-native speakers of Japanese need to have a language proficiency of at least JLPT N3 level to understand this course. 3. Google Classroom, Bookwidgets, etc. will be used in this course.
Office Hours	Monday: 16:20-17:50 (5th period) [Reservation is required]
Course Conducted by Instructors with Practical Experience	M/A

Instructor(s)

Instructor Name	Affiliation, Title, Course	E-mail
Miki NISHIOKA	Graduate School of Humanities, Associate professor	miki.nishioka.hmt@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/03/17>>

Course Schedule Information

Course Code	272001
Semester	Fall and Winter Term
Day and Period	Other
Course Name (Japanese)	Current Topics 1
Course Name	Current Topics 1
Capacity	999
Room	
Course Numbering Code	27ADPS6T147
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	ASAHARA Haruyasu,FUKUZAWA Kaori,HARADA Kazuo,YOSHIDA Takuya,TSUJINO Hirohumi,NAKAYAMA Atsushi,YAMAGUCHI Takao,TAKAYA Daisuke
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Basic Syllabus Information

Other	

Detailed Syllabus Information

Course Subtitle	
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	The discovery of novel therapeutics and medical materials requires state-of-the-art analytical techniques, methods for synthesizing various compounds and biomaterial substances, and knowledge of the functions of target proteins and their interactions with drugs. In this

	lecture, the latest findings in the fields of physical chemistry, analytical chemistry, organic chemistry, and structural biology will be reviewed with examples of their application to drug discovery, to deepen students' understanding of these topics.
Learning Goals	**1** Students will learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers, using the latest research methods, which will serve as a reference for future research activities.
Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	

1st	On-Demand Classes Period: Title:
	Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
	Instructor :
	Room :
	Independent Study Outside of Class : Report
2nd	On-Demand Classes Period: Title:
	Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
	Instructor :
	Room :
	Independent Study Outside of Class : Report
3rd	On-Demand Classes Period: Title:
	Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
	Instructor :
	Room :
	Independent Study Outside of Class : Report
4th	On-Demand Classes Period: Title:
	Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
	Instructor :
	Room :
	Independent Study Outside of Class : Report
5th	On-Demand Classes Period: Title:
	Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)

		Instructor :
		Room :
		Independent Study Outside of Class : Report
	6th	On-Demand Classes Period: Title:
		Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
		Instructor :
		Room :
		Independent Study Outside of Class : Report
	7th	On-Demand Classes Period: Title:
		Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
		Instructor :
		Room :
		Independent Study Outside of Class : Report
	8th	On-Demand Classes Period: Title:
		Lecture (learn theoretical and applied knowledge for analyzing and synthesizing various molecules, ranging from small molecule pharmaceuticals to biopolymers)
		Instructor :
		Room :
		Independent Study Outside of Class : Report
Textbooks	Papers and review articles related to the lecture content	
Reference		

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Allocation of Marks	85%	15%			

Additional Information on Grading

Submission of reports according to lecture content and class participation will be evaluated.
Evaluation items: Report of lecture content
Report: 85 points
Attitude toward the class: 15 points
Total 100 points will be used for evaluation.

Reasonable Accommodation

・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability

	Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	

Instructor(s)

Instructor Name	Extension
YOSHIDA Takuya	
YAMAGUCHI Takao	
ASAHARA Haruyasu	
HARADA Kazuo	
TSUJINO Hirohumi	
FUKUZAWA Kaori	
Takaya Daisuke	

Cautions for Students

シラバス参照

<<Last Updated:2025/03/07>>

Course Schedule Information

Course Code	272002
Semester	Fall and Winter Term
Day and Period	Other
Course Name (Japanese)	Current Topics 2
Course Name	Current Topics 2
Capacity	999
Room	
Course Numbering Code	27ADPS6T147
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	TSUTSUMI Yasuo,HASHIMOTO Hitoshi,KONDO Masuo,HINO Nobumasa,HIGASHISAKA Kazuma,SEIRIKI Kaoru,Niwa Yuki,NAKAGAWA Shinsaku
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Basic Syllabus Information

Other	

Detailed Syllabus Information

Course Subtitle	Action(effects) and dynamics/kinetics
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	The effects (or side effects in some cases) of drug therapy are manifested by the drugs being absorbed into the body, distributed to various organs and tissues, and modifying the functions of the body. Drugs that enter the body are eliminated from the body through metabolism and excretion. In drug therapy, it is important to understand the relationship between drug usage/dose and changes in drug

	concentration in vivo, as well as the relationship between exposure to drugs in vivo and expected actions and side effects. In this lecture, we will study the latest research contents as examples for the purpose of deepening these understandings.
Learning Goals	**1** By understanding the latest research results in biopharmaceutics, pharmacology, and toxicology, students can refer to their future research activities.
Requirements, Prerequisites	Students who have passed the graduate school entrance examination.
Attendance and Student Conduct Policy	
Class Plan	

1st	On-Demand Classes Period: Title:Current topics of cytokine therapy
	Cytokine therapy is reviewed.
	Instructor : Yasuo TSUTSUMI
	Room :
	Independent Study Outside of Class : nothing
2nd	On-Demand Classes Period: Title:Current topics of NanoToxicology (NanoTox)
	NanoToxicology (NanoTox) is reviewed.
	Instructor : Kazuma HIGASHISAKA
	Room :
	Independent Study Outside of Class : nothing
3rd	On-Demand Classes Period: Title:Harmonization of epithelium-targeted drug development and regulation for clinical application (1)
	Regulation for clinical application is reviewed.
	Instructor : Masuo KONDOH
	Room :
	Independent Study Outside of Class : nothing
4th	On-Demand Classes Period: Title:Harmonization of epithelium-targeted drug development and regulation for clinical application (2)
	Regulation for clinical application is reviewed.
	Instructor : Yuki NIWA
	Room :
	Independent Study Outside of Class : nothing
5th	On-Demand Classes Period: Title:Adenovirus vector-based cancer gene therapy
	Cancer gene therapy using adenovirus vectors is reviewed.
	Instructor : Shinsaku NAKAGAWA
	Room :

		Independent Study Outside of Class : nothing
	6th	On-Demand Classes Period: Title:Protein engineering and pharmaceutical applications
		Protein engineering and pharmaceutical applications are reviewed.
		Instructor : Nobumasa HINO
		Room :
		Independent Study Outside of Class : nothing
	7th	On-Demand Classes Period: Title:Current topics of research on brain disorders
		Research on brain disorders is reviewed.
		Instructor : Hitoshi HASHIMOTO
		Room :
		Independent Study Outside of Class : nothing
	8th	On-Demand Classes Period: Title:Current topics of research on affection
		Research on affection is reviewed.
		Instructor : Kazuki NAGAYASU
		Room :
		Independent Study Outside of Class : nothing

Textbooks	Latest papers and topics
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	The following evaluation criteria				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	Submission of reports according to lecture content and class participation will be evaluated. Evaluation items: Report of lecture content : 85 points Attitude toward the class: 15 points Total 100 points will be used for evaluation.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp

	Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	Shinsaku NAKAGAWA <Tuesday, 13:00 - 14:00> Nobumasa HINO <Monday, 14:00-16:00> Yasuo TSUTSUMI <Tuesday, 13:00 - 14:00> Kazuma HIGASHISAKA <Friday, 10:00 - 16:00> Masuo KONDOH <Monday, 12:00 - 13:00> Yuki NIWA <Monday, 12:00 - 13:00> Hitoshi HASHIMOTO <Monday, 12:00-13:00> Kazuki NAGAYASU <Wednesday, 12:00-13:00>

Instructor(s)

Instructor Name	Extension
Hitoshi HASHIMOTO	8180
Yasuo TSUTSUMI	8230
Kazuma HIGASHISAKA	8231
Shinsaku NAKAGAWA	8175
Nobumasa HINO	8176
Masuo KONDOH	8195
Kazuki NAGAYASU	8183
Yuki NIWA	8195

Cautions for Students

シラバス参照

<<Last Updated:2025/03/05>>

Course Schedule Information

Course Code	272003
Semester	Fall and Winter Term
Day and Period	Other
Course Name (Japanese)	Current Topics 3
Course Name	Current Topics 3
Capacity	999
Room	
Course Numbering Code	27ADPS6T147
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	OBANA Masanori,OKADA Yoshiaki,MAEDA Makiko,MAEDA Shinichirou,HIROBE Sachiko,OOISHI Minako,Hirai Toshiro
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Basic Syllabus Information

Other	

Detailed Syllabus Information

Course Subtitle	Clinical and Biomedical Sciences
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	Knowledge at the genetic, molecular, cellular, and tissue levels is essential for developing new therapeutic approaches and understanding the mechanism of the drug. In this lecture, students will learn to deepen their understanding of these issues by using examples such as optimization of drug discovery and drug therapy based on the elucidation of biological responses to diseases and drugs.

Learning Goals	**1** Students will learn state-of-art techniques for developing new therapeutic approaches and understanding the mechanism of the drug, which will feed back for their research projects.
Requirements, Prerequisites	Students who passed the enrolled examination.
Attendance and Student Conduct Policy	
Class Plan	**1st** Period: Title: The latest research results will be provided. This is an on-demand class. Instructor : Room : Independent Study Outside of Class : After the series of lectures, students will make out a report. **2nd** Period: Title: Instructor : Room : Independent Study Outside of Class : After the series of lectures, students will make out a report.
Textbooks	Latest papers and topics
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Allocation of Marks	85%	15%			

Additional Information on Grading

Submission of reports according to lecture content and class participation will be evaluated.
Evaluation items: ・Report of lecture content
Report on lecture content: 85 points (Choose one of the eight lectures and freely discuss the lecture content and your own thoughts.)
Attitude toward the class: 15 points
Total 100 points will be used for evaluation.

Reasonable Accommodation

・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center.

・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.
Website : https://acs.hacc.osaka-u.ac.jp

	Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	

Instructor(s)

Instructor Name	Extension
Masanori Obana	
Yasushi Fujio	
Yoshiaki Okada	
Makiko Maeda	
Shinichiro Maeda	
Sachiko Hirobe	
Toshiro Hirai	
Minako Oishi	

Cautions for Students

シラバス参照

<<Last Updated:2025/04/04>>

Course Schedule Information

Course Code	272004
Semester	Fall and Winter Term
Day and Period	Other
Course Name (Japanese)	Current Topics 4
Course Name	Current Topics 4
Capacity	999
Room	
Course Numbering Code	27ADPS6T147
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	Saitoh Tatsuya,MIZUGUCHI Hiroyuki,FUKADA Soichiro,NISHINO Kunihiko,TAKEMURA Naoki,Kahori Shimizu,JINGUSHI Kentaro,KUBO Atsushi
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Basic Syllabus Information

Other	Students who require special accommodation due to disabilities should consult with Education Affairs Section at the Graduate School and School of Pharmaceutical Sciences beforehand.

Detailed Syllabus Information

Course Subtitle	Molecular Cellular Biology for Drug Developmen
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)

Course Objectives	In this lecture, faculty members from the Graduate School of Pharmaceutical Sciences, who are conducting cutting-edge research in the life sciences, such as molecular biology, cell physiology, immunology, and structural life sciences, will introduce their research. The objective of this course is to provide students with knowledge, information and strategies for drug discovery through exposure to such cutting-edge research.
Learning Goals	**1** Acquire cutting-edge information and knowledge of life science research. Students can cultivate the creativity and the ability to construct research methods to develop drug discovery research.
Requirements, Prerequisites	Basic knowledge of the field of pharmaceutical life sciences is required.
Attendance and Student Conduct Policy	Attendance of at least two-thirds of all lectures is required. If the number of attendances is less than this, it will not be eligible for grading.
Class Plan	

1st	On-Demand Classes Period: Title:Understanding and controlling the innate immune response
	Faculty members of the Graduate School of Pharmaceutical Sciences will introduce cutting-edge life science research in a total of eight lectures. This lecture will explain the mechanisms of host defense induced by innate immunity. In addition, this lecture will also explain the mechanisms of disease development caused by aberrant innate immunity and therapeutic agents for immune system disorders.
	Instructor : Tatsuya Saitoh
	Room : Lecture Room B
	Independent Study Outside of Class : Before the lecture, students should obtain basic information from the lecture title. Students are expected to deepen their understanding of the content of each lecture by using references and other materials.
2nd	On-Demand Classes Period: Title:Role of extracellular vesicles in disease and potential for clinical application
	Extracellular vesicles (EVs) are released by all three domains of life (eukaryotes, bacteria, and archaea) and represent an evolutionarily conserved mechanism for intercellular communication. This lecture will introduce the role of EVs in various diseases and their potential clinical applications.
	Instructor : Kentaro Jingushi
	Room : Lecture Room B
	Independent Study Outside of Class :
3rd	On-Demand Classes Period: Title:Oncolytic viruses for cancer therapy
	This lecture introduces the cancer therapy using oncolytic viruses, which replicate in and kill tumor cells in a tumor cell-specific manner.
	Instructor : Kahori Shimizu
	Room : Lecture Room B
	Independent Study Outside of Class :
4th	On-Demand Classes Period: Title:Development of functional enterocytes and hepatocytes by using regenerative medicine-derived techniques for pharmaceutical research
	This lecture introduces development of functional enterocytes and hepatocytes by using regenerative medicine-derived techniques for pharmaceutical research

		Instructor : Hiroyuki Mizuguchi
		Room : Lecture Room B
		Independent Study Outside of Class :
	5th	On-Demand Classes Period: Title:Development of Efflux Pump Inhibitors to Overcome Infections Caused by Multidrug-Resistant Bacteria
		Infections caused by drug-resistant bacteria are increasing worldwide and have become a serious public health concern. This lecture will introduce the function of drug efflux pumps, which are one of the key factors contributing to multidrug resistance, as well as the development of their inhibitors.
		Instructor : Kunihiko Nishino
		Room : Lecture Room B
		Independent Study Outside of Class :
	6th	On-Demand Classes Period: Title:Understanding and controlling cell death-induced sterile inflammation in barrier tissues
		This lecture introduces the mechanism of cell death-mediated inflammation caused by non-infectious external stimuli in the barrier tissues, including digestive tract, respiratory tract and skin, and appropriate development of drug treatment.
		Instructor : Naoki Takemura
		Room : Lecture Room B
		Independent Study Outside of Class :
	7th	On-Demand Classes Period: Title:Frontiers of locomotor research with a focus on skeletal muscle
		In this lecture, the structure and diseases of skeletal muscle will be outlined and the frontiers of basic and applied research will be introduced.
		Instructor : So-ichiro Fukada
		Room : Lecture Room B
		Independent Study Outside of Class :
	8th	On-Demand Classes Period: Title:Mechanisms of Intracellular Signal Transductions
		In this lecture, mechanisms of intracellular signal transduction for cells to sense and respond to the external environment will be outlined and recent findings will be introduced.
		Instructor : Atsushi Kubo
		Room : Lecture Room B
		Independent Study Outside of Class :
Textbooks		
Reference	Molecular Biology of the cell (Newton Press)	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	**Report/paper**				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	Submit reports on assignments submitted in each lecture 100%
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	

Instructor(s)

Instructor Name	Extension
Kunihiko Nishino	
Kentaro Jingushi	
Hiroyuki Mizuguchi	
Fuminori Sakurai	
Tatsuya Saitoh	
Naoki Takemura	
So-ichiro Fukada	
Atsushi Kubo	

Cautions for Students

シラバス参照

<<Last Updated:2025/03/04>>

Course Schedule Information

Course Code	290887
Semester	Intensive
Day and Period	Other
Course Name (Japanese)	ΣGlobal Lab Special Course 2
Course Name	ΣGlobal Lab Special Course 2
Capacity	999
Room	
Course Numbering Code	29MAPH9P100,29CHEM9P100,29CHEN9P100,29FRMS9P100,29MESB9P100,29ELOS9P100,29SSAI9P100,29MASC9P100,29MSSS9P100
Type of Class	Lecture Subject
Credits	1.0
Student Year	1,2
Instructor	UMAKOSHI Hiroshi
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
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Detailed Syllabus Information

Course Subtitle	Science of Coffee (Tentative Title) by Tonya L Kuhl (Professor, College of Engineering, UC Davis / Special Appointed Professor (Cross Appointment), The University of Osaka)
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	The purpose of this course is to pursue the fundamental concepts and practical methods in Engineering Science. The lecture will be given in English by faculty and/or researcher in partner organization and university.

Learning Goals	**1**	To understand the connection between the frontline research subjects in Engineering Science and its extension and/or application in academic and/or industrial society
	2	To understand a philosophy of "Engineering Science" and extend it to students own research
Requirements, Prerequisites	Basic knowledge of Engineering Science	
Attendance and Student Conduct Policy	Please contact the Graduate Students Section or the professor/instructor in charge when you will not be able to attend lectures due to infectious disease originating at the university, fever or bereavement when losing a loved one.	
Class Plan		

1st	Title:Science of Coffee (1) (Tentative)
	Overview / What is coffee (Tentative)
	Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
	Room : TBA
	Independent Study Outside of Class : Self-Feedback (1)
2nd	Title:Science of Coffee (2) (Tentative)
	Coffee Arabica vs Rubusta (Tentative)
	Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
	Room : TBA
	Independent Study Outside of Class : Self-Feedback (2)
3rd	Title:Science of Coffee (3) (Tentative)
	Harvest / Roasting / Brewing Espresso (Tentative)
	Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
	Room : TBA
	Independent Study Outside of Class : Self-Feedback (3)
4th	Title:Science of Coffee (4) (Tentative)
	Coffee and Society / Health and Coffee / Decaffeination (Tentative)
	Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
	Room : TBA
	Independent Study Outside of Class : Self-Feedback (4)
5th	Title:Science of Coffee (5) (Tentative)
	Food society and Regulations (Tentative)
	Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
	Room : TBA
	Independent Study Outside of Class : Self-Feedback (5)
6th	Title:Science of Coffee (6) (Tentative)

		Current Research (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (6)
	7th	Title:Science of Coffee (7) (Tentative)
		Debriefing (Tentative)
		Instructor : Prof. Tonya Kuhl (Prof. Hiroshi Umakoshi)
		Room : TBA
		Independent Study Outside of Class : Self-Feedback (7)

Textbooks	Hand-out materials are to be distributed.(Tentative)
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Self-Feedback	Report/paper	Essay on Engineering Science		
Learning Goals1	○	○			
Learning Goals2			○		
Allocation of Marks	30%	50%	20%		

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	When students with disabilities take this course and request reasonable accommodation, please contact the Graduate Students Section or the instructor in advance and discuss the concerns. Students can join the "Coffee Lab" experience outside class.
Office Hours	Office Hour of Coordinator (H. Umakoshi, 16-17pm on Friday)
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Hiroshi UMAKOSHI		Professor	C-329	6287	umakoshi.hiroshi.es@osaka-u.ac.jp
Nozomi Watanabe		Assistant Professor	C-331	6285	no.watanabe.es@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/25>>

Course Schedule Information

Course Code	331135
Semester	Fall and Winter Term
Day and Period	Wed2
Course Name (Japanese)	情報基礎数学講義
Course Name	Topics in Frontiers of Mathematics
Capacity	100
Room	
Course Numbering Code	33BIEN5F112,33PUAM5F112,33INPS5F111,33COSC5F111,33INNE5F112,33MUEN5F112
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2
Instructor	MIYATAKE Yuto
Course of Media Class	Not Applicable

※About Course of Media Class
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Detailed Syllabus Information

Course Subtitle	Numerical analysis for differential equations and data science	
Language of the Course	English	
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)	
Course Objectives	Fundamental aspects of numerical methods for differential equations in data science	
Learning Goals	**1**	You will gain an understanding of the fundamental theory of numerical analysis for ordinary differential equations and its applications in data science.

Requirements, Prerequisites	Fundamental knowledge of numerical algorithms for ordinary differential equations is helpful but not required, as these topics are also covered in the course.
Attendance and Student Conduct Policy	
Class Plan	

1st	Title:
	Introduction: Numerical analysis of differential equations and data science
	Independent Study Outside of Class : Download the document from CLE
2nd	Title:
	Numerical methods for ODEs 1: Runge-Kutta methods
	Independent Study Outside of Class : Review and preparation of the document.
3rd	Title:
	Numerical methods for ODEs 2: Structure-preserving methods (geometric integration)
	Independent Study Outside of Class : Review and preparation of the document.
4th	Title:
	Numerical methods for ODEs3: Composition methods, Splitting methods, numerical methods on manifolds
	Independent Study Outside of Class : Review and preparation of the document.
5th	Title:
	Adjoint methods
	Independent Study Outside of Class : Review and preparation of the document.
6th	Title:
	Dynamical low-rank approximation 1
	Independent Study Outside of Class : Review and preparation of the document.
7th	Title:
	Dynamical low-rank approximation 2
	Independent Study Outside of Class : Review and preparation of the document.
8th	Title:
	Optimization 1
	Independent Study Outside of Class : Review and preparation of the document.
9th	Title:
	Optimization 2
	Independent Study Outside of Class : Review and preparation of the document.
10th	Title:
	Reduced order modelling 1

	Independent Study Outside of Class : Review and preparation of the document.
11th	Title:
	Reduced order modelling 2
	Independent Study Outside of Class : Review and preparation of the document.
12th	Title:
	Uncertainty quantification in numerical solutions for ODEs 1
	Independent Study Outside of Class : Review and preparation of the document.
13th	Title:
	Uncertainty quantification in numerical solutions for ODEs 2
	Independent Study Outside of Class : Review and preparation of the document.
14th	Title:
	Uncertainty quantification in numerical solutions for ODEs 3
	Independent Study Outside of Class : Review and preparation of the document.
15th	Title:
	Discussions regarding the assignment
	Independent Study Outside of Class : Review of the document.

Textbooks	The document on the CLE system is used.
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	**Report/paper**				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	

Office Hours	
Course Conducted by Instructors with Practical Experience	

Cautions for Students

シラバス参照

<<Last Updated:2025/01/14>>

Course Schedule Information

Course Code	452078
Semester	Fall and Winter Term
Day and Period	Fri2
Course Name (Japanese)	応用言語学研究B
Course Name	Applied Linguistics B
Capacity	0
Room	Language and Culture (Toyonaka Campus)/Seminar Room6
Course Numbering Code	45HULC6BV03
Required/Optional	
Type of Class	Seminar Subject
Credits	2.0
Student Year	1,2
Field	
Instructor	LEE SHZH-CHEN NANCY
Course of Media Class	Not Applicable

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Detailed Syllabus Information

Course Subtitle	Applied Linguistics B
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous

	research, fieldwork) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	This course introduces students to the field of applied linguistics by focusing on second language speaking development and research. It allows students to explore theoretical and practical issues concerning the acquisition/development and teaching of second language speaking skills. Students will examine theories related to second language speaking acquisition/development, read and analyze recent literature, and consider how previous research in this field can be enhanced. Finally, students will discuss the practical applications and integration of theories into second language classrooms. Students will complete weekly course readings and homework assignments; analyze, critique, and create research designs to investigate various aspects of second language speaking development; make presentations; and take part in group discussions.
Learning Goals	**1** 1. To demonstrate a basic understanding of applied linguistics and second language speaking development research 2. To critically read and analyze literature, to formulate ideas, discuss, and express opinions in English 3. To compose academic reports in English 4. To deliver academic presentations in English
Requirements, Prerequisites	Intermediate English speaking and writing skills. Students are not expected to have advanced level English but they are expected to participate actively and are encouraged to use as much English as possible in class.
Attendance and Student Conduct Policy	Coming late to class is considered as absence. Four absences will fail this course unless students have good reasons. Please contact instructor when absent.
Class Plan	**1.** Title:Course orientation/ position of speaking research in SLA Introducing class, course structure, syllabus, assignments, and evaluation. Student introducing their own research interests and study background Room : Independent Study Outside of Class : Students need to be ready to introduce their research interests in English to class. Students will be encouraged to read widely outside of class. **2.** Title:Chapter 1 Speaking and the language learner Room : Independent Study Outside of Class : Students need to complete reading Chapter 1 and prepare for class discussion. **3.** Title:Chapter 2 Cognitive processes in speaking Room : Independent Study Outside of Class : Students need to complete reading Chapter 2 and prepare for class discussion. **4.** Title:Chapter 3 Speaking competence Room : Independent Study Outside of Class : Students need to complete reading first half of Chapter 3 and prepare for class discussion.

5.	Title:Chapter 3 (part 2)
	Speaking competence (continues)
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 3 and prepare for class discussion.
6.	Title:Textbook review
	Review Chapters 1-3
	Room :
	Independent Study Outside of Class : Students need to review and understand the content of Chapters 1-3.
7.	Title:Paper critique
	Students learn how to critically read research papers
	Room :
	Independent Study Outside of Class : Students need to complete reading one research paper (instructor's choice).
8.	Title:Mid-term presentations
	Students critique and present one speaking related research paper to class
	Room :
	Independent Study Outside of Class : Students need to complete reading one research paper in the field of speaking research and prepare for presentation.
9.	Title:Chapter 4
	Speech: features, grammar, and pronunciation
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 4 and prepare for class discussion.
10.	Title:Chapter 5
	Spoken discourse and genres of speaking
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 5 and prepare for class discussion.
11.	Title:Chapter 9
	Speaking tasks (classroom practices and processes)
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 9 and prepare for class discussion.
12.	Title:Chapter 10

	Enhancing speaking performance
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 10 and prepare for class discussion.
13.	Title:Chapter 12
	Assessing speaking
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 12 and prepare for class discussion.
14.	Title:Textbook review
	Review Chapters 4, 5, 9, 10, and 12
	Room :
	Independent Study Outside of Class : Students need to review and understand the content of Chapters 4, 5, 9, 10, and 12
15.	Title:Final presentations
	Students critique and present one research paper (related to speaking)
	Room :
	Independent Study Outside of Class : Students need to complete reading one research paper in the field of speaking research and prepare for presentation. Students need to complete a written paper critique (final report)
1.	Title:Course orientation/ position of speaking research in SLA
	Introducing class, course structure, syllabus, assignments, and evaluation. Student introducing their own research interests and study background
	Room :
	Independent Study Outside of Class : Students need to be ready to introduce their research interests in English to class. Students will be encouraged to read widely outside of class.
2.	Title:Chapter 1
	Speaking and the language learner
	Room :
	Independent Study Outside of Class : Students need to complete reading Chapter 1 and prepare for class discussion.
3.	Title:Chapter 2
	Cognitive processes in speaking
	Room :
	Independent Study Outside of Class : Students need to complete reading Chapter 2 and prepare for class discussion.
4.	Title:Chapter 3
	Speaking competence

	Room :
	Independent Study Outside of Class : Students need to complete reading first half of Chapter 3 and prepare for class discussion.
5.	Title:Chapter 3 (part 2)
	Speaking competence (continues)
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 3 and prepare for class discussion.
6.	Title:Textbook review
	Review Chapters 1-3
	Room :
	Independent Study Outside of Class : Students need to review and understand the content of Chapters 1-3.
7.	Title:Paper critique
	Students learn how to critically read research papers
	Room :
	Independent Study Outside of Class : Students need to complete reading one research paper (instructor's choice).
8.	Title:Mid-term presentations
	Students critique and present one speaking related research paper to class
	Room :
	Independent Study Outside of Class : Students need to complete reading one research paper in the field of speaking research and prepare for presentation.
9.	Title:Chapter 4
	Speech: features, grammar, and pronunciation
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 4 and prepare for class discussion.
10.	Title:Chapter 5
	Spoken discourse and genres of speaking
	Room :
	Independent Study Outside of Class : Students need to complete reading second half of Chapter 5 and prepare for class discussion.
11.	Title:Chapter 9
	Speaking tasks (classroom practices and processes)
	Room :

		Independent Study Outside of Class : Students need to complete reading second half of Chapter 9 and prepare for class discussion.
	12.	Title:Chapter 10
		Enhancing speaking performance
		Room :
		Independent Study Outside of Class : Students need to complete reading second half of Chapter 10 and prepare for class discussion.
	13.	Title:Chapter 12
		Assessing speaking
		Room :
		Independent Study Outside of Class : Students need to complete reading second half of Chapter 12 and prepare for class discussion.
	14.	Title:Textbook review
		Review Chapters 4, 5, 9, 10, and 12
		Room :
		Independent Study Outside of Class : Students need to review and understand the content of Chapters 4, 5, 9, 10, and 12
	15.	Title:Final presentations
		Students critique and present one research paper (related to speaking)
		Room :
		Independent Study Outside of Class : Students need to complete reading one research paper in the field of speaking research and prepare for presentation. Students need to complete a written paper critique (final report)

Textbooks	Goh, C. C. M. & Burns, A. (2012). Teaching speaking: A holistic approach. Cambridge: Cambridge University Press. Other materials will be announced in class.
Reference	Lightbown, P. M., & Spada, N. (2013). How languages are learned (4th ed.). Oxford: Oxford University Press.

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Learning engagement	Report/paper	Presentation		
Learning Goals1	○	○	○		
Allocation of Marks	40%	20%	40%		

Additional Information on Grading	Learning engagement includes class work and homework. There will be two presentations (mid-term and final) and one final report. Final report will be a paper critique.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center.

	・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website：https://acs.hacc.osaka-u.ac.jp Tel　　：06-6850-6107 E-mail　：campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	There might be changes to the syllabus. Please check CLE regularly and before the first class for instructions.
Office Hours	By appointment.

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Lee Shzh-chen Nancy		Graduate School of Humanities, associate professor	言語文化B棟, room 405		lee.nancy.hmt@osaka-u.ac.jp
Lee Shzh-chen Nancy		Graduate School of Humanities, associate professor	言語文化B棟, room 405		lee.nancy.hmt@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/01/28>>

Course Schedule Information

Course Code	452132
Semester	Fall and Winter Term
Day and Period	Fri3
Course Name (Japanese)	超領域文化論Ｂ
Course Name	Interdisciplinary Cultural Studies B
Capacity	0
Room	Language and Culture (Toyonaka Campus)/Seminar Room4
Course Numbering Code	45HULC6BV00
Required/Optional	
Type of Class	Seminar Subject
Credits	2.0
Student Year	1,2
Field	
Instructor	GHADIMI AMIN
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	The Making of Nations and Nationalism
Language of the Course	Japanese
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous

	research, fieldwork) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	To understand influential accounts of the origins and transformation of nations and nationalism. To think critically about and to evaluate those theories. To compare various theories with one another. To grasp and distinguish among various components of an academic text, including its theoretical framework, its positioning in received scholarship, its empirical basis, and its methodology.

Learning Goals

1	To think independently about approaches to the study of nationalism and to express critical thought on those approaches through engagement with other perspectives
2	To read complex texts accurately and efficiently
3	To comprehend and evaluate constituent elements of academic texts, including argument, evidence, positioning within existing scholarship, and theoretical framing
4	To understand relationships among various texts and to evaluate texts comparatively

Requirements, Prerequisites	None
Attendance and Student Conduct Policy	Please contact in the instructor if you have a legitimate reason for missing class such as family exigencies, personal health, or faith-based observances. Otherwise, absences are not excused.

Class Plan

1	Title:
	Please consult the Japanese-language syllabus
	Room :
	Independent Study Outside of Class : Please consult the Japanese-language syllabus

Textbooks	Readings will be distributed in class
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Presentation	Report/paper			
Learning Goals1	○	○			
Learning Goals2	○	○			
Learning Goals3	○	○			
Learning Goals4	○	○			
Allocation of Marks	40%	60%			

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp

	Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	The readings for this course are all available in both English and Japanese. You are welcome to read in whichever language you prefer. Class discussion will be conducted in Japanese.
Office Hours	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Amin Ghadimi		Course in Interdisciplinary Cultural Formations			amin.ghadimi.hmt@osaka-u.ac.jp
Amin Ghadimi		Course in Interdisciplinary Cultural Formations			amin.ghadimi.hmt@osaka-u.ac.jp

Cautions for Students

シラバス参照

<<Last Updated:2025/02/27>>

Course Schedule Information

Course Code	881186
Semester	Fall and Winter Term
Day and Period	Tue5
Course Name (Japanese)	私法の諸問題
Course Name	Private Law in Japan
Capacity	0
Room	Graduate School of Law and Graduate School of Economics/Lecture Building Room2
Course Numbering Code	88INES9U100
Required/Optional	
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	Elbalti Beligh
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Private Law in Japan
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Course Objectives	If law is the product of a country's history and culture, then there is no better way to understand a society in all its complexity than to study how it organizes itself and the relationships among its members. This course introduces students to the field of private law in Japan,

	focusing on civil law and the Civil Code. The course discusses and examines the major categories, basic concepts, and institutions that underlie the Japanese private law system.
Learning Goals	**1** Upon completing this course, students will be expected to gain basic knowledge about Japanese private law and its characteristics. Especially, students 1. will be expected to be able to explain what is private law, civil law, and the main categories of private law
	2 2. will learn about the different areas of private law, and how they are regulated in the civil code of Japan
	3 3. will be expected to provide their assessment on how private law in Japan law should be categorized or described
Requirements, Prerequisites	There are no requisites for this course except interest and willing to learn. However, good English language skills are necessary to be able to follow the lectures and take part in the discussions.
Attendance and Student Conduct Policy	
Class Plan	**1st** Title:Introduction and Guidance General overview of the Course and Class policy and rules explanation Instructor : Independent Study Outside of Class : N/A
	2nd Title:Private Law, Japanese Law Understand the the basic concepts and philosophy of private law and its aims and characteristics of Japanese law Instructor : Independent Study Outside of Class : relevant reading materials that will be explained in class
	3rd Title:Civil Code –General Structure and Fundamental Principles Understand the structure and the fundamental principles underlying the Civil Code Instructor : Independent Study Outside of Class : relevant reading materials that will be explained in class
	4th Title:Fundamental Notions (1) Understand the fundamental notions of the Civil Code Instructor : Independent Study Outside of Class : relevant reading materials that will be explained in class
	5th Title:Fundamental Notions (2) Understand the fundamental notions of the Civil Code Instructor : Independent Study Outside of Class : relevant reading materials that will be explained in class
	6th Title:Contracts: Formation and Effect Understand what is a contract and the rules of its formation

	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
7th	Title:Contracts: Performance and Remedies
	Understand the effect of the contract from the point of view of performance and remedies
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
8th	Title:Tort - General Overview
	Understand general notions of torts
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
9th	Title:Tort - Special Issues
	Examine some special issues regarding tort law in Japan
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
10th	Title:Property law (I)
	Understand general notions of property
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
11th	Title:Property law (II)
	Examine some special issues regarding property law in Japan
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
12th	Title:Family Law - General Features
	Understand the characteristic of family law in Japan
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
13th	Title:Marriage and Divorce
	Understand how marriage and divorce are regulation in Japan
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
14th	Title:Parent-Child Relationship
	Understand how parent-child relationship is regulated in Japan

		Instructor :
		Independent Study Outside of Class : relevant reading materials that will be explained in class
	15th	Title:General Conclusion and Instructions for the Term Exam
		General Conclusion and Instructions for the Term Exam
		Instructor :
		Independent Study Outside of Class : N/A

Textbooks	None in particular. Necessary materials will be provided by the lecturer.
Reference	to be indicated in class

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Learning Goals2	○	○			
Learning Goals3	○	○			
Allocation of Marks	70%	30%			

Additional Information on Grading	Final report 70%, Class participation (including regular attendance, participation and contributions to the discussions, attitudes during class, etc.) 30%. Attendance is mandatory unless excused. Details will be provided in class.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	Special needs and necessities of the students will be taken into consideration during the lectures. Students are encouraged to discuss with the instructor when necessary.
Office Hours	Reservation by email at any time
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Béligh Elbalti	エルバルティ・ベリーグ			6934	

シラバス参照

<<Last Updated:2025/02/27>>

Course Schedule Information

Course Code	881187
Semester	Fall and Winter Term
Day and Period	Wed5
Course Name (Japanese)	コモンロー入門
Course Name	Introduction to Common Law
Capacity	0
Room	Graduate School of Law and Graduate School of Economics/Lecture Building Room2
Course Numbering Code	88INES9U100
Required/Optional	
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	Elbalti Beligh
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Introduction to Common Law
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Course Objectives	Common law is one of the most important and influential legal systems in the world. Originally developed in England, it has spread throughout the world to become the legal system of many leading countries such as the United States, Canada, Australia, New Zealand,

	etc. The main objective of this course is to explain the core issues of common law in general and to explain how common law works and operates.
Learning Goals	**1** Upon completing this course, students are expected to become more familiar with the peculiarities of the common law system, its fundamental notions and concepts, and how it operates. Especially, students 1. Understand the characteristics of the common law legal system
	2 Identify the main representatives of the common law legal tradition and their specificities
	3 To be able to illustrate how the common law legal tradition differs from other legal traditions (notably the civil law legal tradition)
Requirements, Prerequisites	There are no requisites for this course except interest and willing to learn. However, good English language skills are necessary to be able to follow the lectures and take part in the discussions.
Attendance and Student Conduct Policy	Attendance is mandatory unless excused. Details will be provided in class.
Class Plan	

1st	Title:Introduction and Guidance
	General overview of the Course and Class policy and rules explanation
	Instructor :
	Independent Study Outside of Class : N/A
2nd	Title:The Common Law: Meanings & Characteristics
	Understand the common law as a legal family
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
3rd	Title:Distinctive Characteristics of the Common Law
	Understand the distinctive features of the common law as a legal system
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
4th	Title:Historical Elements
	Understand how the common law emerged and developed from historical perspective
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
5th	Title:Sources of Lawand Legal Reasoning
	Under the the sources of law in Common law and the specificities of the Common law legal reasoning
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
6th	Title:The Judiciary and Actors of Law

	Understand the court structure and the judicial organisation in common law jurisdictions
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
7th	Title:Contract Law (1)
	Understand the characteristic features of contracts in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
8th	Title:Contract Law (2)
	Understand the characteristic features of contracts in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
9th	Title:Tort Law (1)
	Understand the characteristic features of tort in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
10th	Title:Tort Law (2)
	Understand the characteristic features of tort in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
11th	Title:Property Law (1)
	Understand the characteristic features of property in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
12th	Title:Property Law (2)
	Understand the characteristic features of property in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
13th	Title:Choice of Laws
	Understand the characteristic features of choice of law in common law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
14th	Title:International Civil Procedure

		Understand the characteristic features of international civil procedure in common law
		Instructor :
		Independent Study Outside of Class : relevant reading materials that will be explained in class
	15th	Title:General Conclusion and Instructions for the Term Exam
		General Conclusion and Instructions for the Term Exam
		Instructor :
		Independent Study Outside of Class : N/A

Textbooks	None in particular. Necessary materials will be provided by the lecturer.
Reference	to be indicated in class

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Learning Goals2	○	○			
Learning Goals3	○	○			
Allocation of Marks	70%	30%			

Additional Information on Grading	Final report 70%, Class participation (including regular attendance, participation and contributions to the discussions, attitudes during class, etc.) 30%.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	Special needs and necessities of the students will be taken into consideration during the lectures. Students are encouraged to discuss with the instructor when necessary.
Office Hours	Reservation by email at any time
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail

Béligh Elbalti	エルバルティ・ベリーグ			6934	

Cautions for Students

シラバス参照

<<Last Updated:2025/02/27>>

Course Schedule Information

Course Code	881188
Semester	Fall and Winter Term
Day and Period	Mon5
Course Name (Japanese)	中東の法と社会
Course Name	Law and Society in the Middle East
Capacity	0
Room	Graduate School of Law and Graduate School of Economics/Lecture Building Room2
Course Numbering Code	88INES9U100
Required/Optional	
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	Elbalti Beligh
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Law and Society in the Middle East
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper)
Course Objectives	Middle Eastern countries have been witnessing extraordinary developments in their legal systems. Many countries are active actors in global developments and have become one of the world's leading financial and trade centers and/or preferred destinations for business, work, or tourism. On the other hand, Middle Eastern countries remain very "traditional" especially when it comes to issues relating to

	family law, women's and children's rights, fundamental freedoms etc. despite the various legal reforms that have taken place. This course aims to put all these developments into perspective and initiate students to the fascinating world of the Middle East. This course puts all these developments into perspective and initiates students to the fantastic world of the Middle East with all its complexities…and contradictions.

Learning Goals

1	Upon completion of this course, students will be expected to gain basic knowledge about the legal systems in the Middle East, their characteristics, as well as a general understanding of some hot issues in the region from the point of view of the interaction between Islamic law and modern law. Especially, students : 1. Understand the diversity of the legal systems in the Middle East and their characteristics
2	Understand the complexity of the legal systems in the Middle East especially from the point of view of modernity and tradition
3	To be able to provide a personal assessment of various legal issues involving the Middle East

Requirements, Prerequisites	There are no requisites for this course except interest and willing to learn. However, good English language skills are necessary to be able to follow the lectures and take part in the discussions.
Attendance and Student Conduct Policy	Attendance is mandatory unless excused. Details will be provided in class.

Class Plan

1st	Title:Introduction and Guidance
	Introduction and Guidance
	Instructor :
	Independent Study Outside of Class : N/A
2nd	Title:Law in the Middle East – What is Special about it?
	Understand the peculiar features of the Middle Eastern Law
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
3rd	Title:History of law in the Middle East (1) - Until the 19th Century
	Understand the development of the law in the Middle East until the 19th century
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
4th	Title:History of Law in the Middle East (2) – From the 19th Century
	Understand the development of the law in the Middle East until the 19th century
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
5th	Title:Sources of Law in the Middle East (1)
	Understand the formal sources of law in the Middle East
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class

6th	Title:Sources of Law in the Middle East (2)
	Understand the sources of law based on Sharia
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
7th	Title:Constitutional Order in the Middle East
	Understand the constitutional frameworks of Middle Eastern Countries
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
8th	Title:Protection of Fundamental Rights
	Understand the protection of fundamental rights in the Middle and its peculiarities
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
9th	Title:The Judiciary in the Middle East
	Understand the judicial structure in Middle Eastern Countries
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
10th	Title: Private Law in the Middle East
	Undersrand some peculiar aspects of private law in the Middle East
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
11th	Title:Family Law in the Middle East
	Understand some issues relating family law regulation in the Middle East
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
12th	Title:Law and Children
	Understand some issues relating to children and their rights in the Middle East
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class
13th	Title:Private International Law (I)
	Understand international private relationships are regulated in the Middle East
	Instructor :
	Independent Study Outside of Class : relevant reading materials that will be explained in class

	14th	Title:Private International Law (II)
		Understand international private relationships are regulated in the Middle East
		Instructor :
		Independent Study Outside of Class : relevant reading materials that will be explained in class
	15th	Title:General Conclusion and Instructions for the Term Exam
		General Conclusion and Instructions for the Term Exam
		Instructor :
		Independent Study Outside of Class : N/A

Textbooks	None in particular. Necessary materials will be provided by the lecturer.
Reference	to be indicated in class

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Report/paper	Learning engagement			
Learning Goals1	○	○			
Learning Goals2	○	○			
Learning Goals3	○	○			
Allocation of Marks	70%	30%			

Additional Information on Grading	Final report 70%, Class participation (including regular attendance, participation and contributions to the discussions, attitudes during class, etc.) 30%.
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	Special needs and necessities of the students will be taken into consideration during the lectures. Students are encouraged to discuss with the instructor when necessary.
Office Hours	Reservation by email at any time
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
Béligh Elbalti	エルバルティ・ベリーグ			6934	

Cautions for Students

シラバス参照

<<Last Updated:2025/02/13>>

Course Schedule Information

Course Code	881226
Semester	Fall and Winter Term
Day and Period	Mon3
Course Name (Japanese)	日本のメディアとコミュニケーション
Course Name	Media and Communications in Japan
Capacity	0
Room	School of Human Sciences/East School House Lecture Room404
Course Numbering Code	88INES9U100
Required/Optional	
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	KONDO Sachihiko
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Media and Communications in Japan
Language of the Course	English
Learning Methods	
Course Objectives	This lecture is designed for students who wish to study critical readings on news stories (i.e. media literacy). In this series of lectures, not only theories of communication, but also the history of mass media in modern Japanese society will be discussed. In so doing, several aspects of the mass media will be studied, such as newspapers, broadcast (TV), magazine journalism, and so on.
Learning Goals	**1** Based on lectures and discussions, students will be able to formulate ideas about the contribution of the media to the maintenance of 'democratic' societies, and the problems the media faces

Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	

1st	Title:Introduction
	Lectures Lecture and Discussion
	Instructor :
	Independent Study Outside of Class : Hadouts and Video Materials of each lectures are available on CLE. Almost 4.0 hours of readning / video viewing shall be assigned for each lecture.
2nd	Title:Theoretical Reviews 1
	McQuil
	Instructor :
	Independent Study Outside of Class :
3rd	Title:Theoretical Reviews 2
	McQuil
	Instructor :
	Independent Study Outside of Class :
4th	Title:Japanese Media information cartel
	Freeman
	Instructor :
	Independent Study Outside of Class :
5th	Title:Stereotype
	Lippmann
	Instructor :
	Independent Study Outside of Class :
6th	Title:Making News Web of Factualities
	Tuchman
	Instructor :
	Independent Study Outside of Class :
7th	Title:Banal Nationalism
	Billig

	Instructor :
	Independent Study Outside of Class :
8th	Title:Invention of Traditions
	Hobsbaum
	Instructor :
	Independent Study Outside of Class :
9th	Title:News about Emperorship
	Fujitani
	Instructor :
	Independent Study Outside of Class :
10th	Title:Japanese Media (Ownership)
	Lecture and Discussion
	Instructor :
	Independent Study Outside of Class :
11th	Title:News Paper Industry and Shoriki
	Lecture and Discussion
	Instructor :
	Independent Study Outside of Class :
12th	Title:Broadcasters and Agents
	Lecture and Discussion
	Instructor :
	Independent Study Outside of Class :
13th	Title:Review/Summery
	Review/Summery
	Instructor :
	Independent Study Outside of Class :
14th	Title:Reading week
	Reviewing Entire Lecture
	Instructor :
	Independent Study Outside of Class :
15th	Title:Review and Examination
	Examination

		Instructor :
		Independent Study Outside of Class :
	16th	Title:Feedback
		Feedback
		Instructor :
		Independent Study Outside of Class :

Textbooks	Handout of each lectures are available on CLE
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods					
Learning Goals1					
Allocation of Marks					

Additional Information on Grading	Contribution to the Class Discussion 30/100 Final Paper 50/100 Class Discussion Report (Attendance Sheet) 20/100
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	Lunch Time
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
No data found					

Cautions for Students

シラバス参照

<<Last Updated:2025/02/28>>

Course Schedule Information

Course Code	881265
Semester	Fall and Winter Term
Day and Period	Thu4
Course Name (Japanese)	日本の外交
Course Name	Japanese Diplomacy
Capacity	0
Room	School of Human Sciences/Main School HouseLecture Room31
Course Numbering Code	88INES9U100
Required/Optional	受講対象：特別聴講学生のみ 人科G30_Z26070
Type of Class	Lecture Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	BABOVIC ALEKSANDRA
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Japanese Diplomacy
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) Research: Collecting information from books and academic papers; gathering and analyzing data by fieldwork (e.g., review of previous research, fieldwork)

	Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development) Online lecture, on-demand content reading, research to deepen the existing concepts and forum contribution write up and discussion, in-class panel discussion/presentation (group coordination), final exam.
Course Objectives	Japanese postwar diplomacy has often been labeled as passive, overly dependent on US foreign policy and its strategic objectives in Asia-Pacific as well as overly focused on its soft power components. This course is designed to help you understand the historical evolution of Japanese diplomatic objectives that had been primarily axed on the so-called Yoshida Doctrine and identify directions in which it has been moving. After brief historical introduction, the course will look at domestic political changes and shifts that significantly influenced Japan's diplomatic and foreign policy priorities. Afterwards, sessions will look at the increased prominence of security and military aspects of Japan's power that have been accentuated with the incumbent PM Shinzo Abe. Second part of the course will be dedicated to the analysis of Japanese diplomacy in Asia-Pacific and Indo-Pacific region in light of the power shifts in regional order primarily due to assertive China. In its last part, the course will look at the most important themes when it comes to Japanese diplomatic activity that are its economic, normative, and cultural dimensions whose prominence ought to be reexamined in the light of the recent economic slowdown and increased nationalism under the Abe Administration.
Learning Goals	**1** Knowledge and Understanding - Basic knowledge of the historical and contemporary institutional, political, and geostrategic foundations of Japanese diplomacy - Broaden your understanding of Japanese diplomacy and foreign policy going beyond classical view of it being exclusively focused on the soft power components - Critically evaluate contemporary Japan's foreign policy objectives/approaches in the context of growingly uncertain, fast changing, and dangerous security surroundings in Asia Pacific and international order more broadly Skills, Qualities, and Attributes - Critical thinking in relation to the material through understanding of concepts and scholarly ideas and reflecting upon them by analyzing real world events - Ability to conduct independent research; organize an engaging discussion that revolves around relevant questions and arguments to be demonstrated; ability to present your work in coherent/pedagogical way - Engage in meaningful discussion with other students
Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	**1st** Title:Introduction please refer to the weekly plans. Introduction + Course overview + Expectations Instructor : Independent Study Outside of Class : Students are expected to read the materials and come prepared for each class.

2nd	Title:Japanese Foreign Policy - A Historical Background
	Required Readings Iokibe, Makoto. The Diplomatic History of Postwar Japan, London: Rutledge, 2011 (Introduction + Chapter 1)
	Instructor :
	Independent Study Outside of Class : Lecture
3rd	Title:Japanese Post-War Strategy in Formation
	Oros, L. Andrew. Normalizing Japan: Politics, Identity and the Evolution of Security Practice. Stanford: Stanford University Press, 2008. (Chapter 2) Iokibe, Makoto. The Diplomatic History of Postwar Japan. London: Rutledge, 2011. (Chapter 2) Jansen, Marius B. 2000. The Making of Modern Japan. Cambridge, MA: Harvard University Press, 2000 (Chapter 19)
	Instructor :
	Independent Study Outside of Class : Independent study and research (preparation of written contribution)
4th	Title:Politics in the Post-War Japan
	Jansen, Marius B. The Making of Modern Japan. Cambridge: Harvard University Press, 2000. (Chapter 20) Curtis, Gerald L. The Japanese Way of Politics. New York: Columbia University Press, 1988. (Chapter 5 + Epilogue)
	Instructor :
	Independent Study Outside of Class : Panel discussion
5th	Title:The US-Japan Security Alliance
	Cha, Victor D. “Powerplay: Origins of the US Alliance System in East Asia.” International Security 34, no. 3 (Winter 2009/2010): 158-196. Inoguchi, T., G. John Ikenberry, and Yoichiro Sato, eds. The U.S.-Japan Security Alliance: Regional Multilateralism, New York: Palgrave MacMillan, 2011. (Chapter 1-2) • Modern article – TBA
	Instructor :
	Independent Study Outside of Class : Lecture
6th	Title:Japanese Economic Miracle
	Chalmers, Johnson A. MITI and the Japanese Miracle: The Growth of Industrial Policy, 1925-1975. Stanford: Stanford University Press, 1982. (Chapter 1-2) • Modern article – TBA
	Instructor :
	Independent Study Outside of Class : Independent study and research (preparation of written contribution)
7th	Title:The Pitfalls of Japanese Pacifism and the Need for Reform
	Berger, Thomas U. “From Sword to Chrysanthemum: Japan’s Culture of Anti-Militarism.” International Security 17, no.4 (Spring, 1993): 119-150.

	• Modern article – TBA
	Instructor :
	Independent Study Outside of Class : Panel discussion
8th	Title:Review
	Review week
	Instructor :
	Independent Study Outside of Class : Review materails for final exam
9th	Title:Japan’s Security Environment
	Koda, Yoji.”Japan’s Perception of and Interests in South China Sea.” Asia Policy 21, no.1 (2016). Liao, Tim F., Kimie Hara, and Krista Wiegand, eds. The China-Japan Border Dispute: Islands of Contention in Multidisciplinary Perspective. New York: Rutledge, 2016. (Chapter 7,8)
	Instructor :
	Independent Study Outside of Class : Lecture
10th	Title:Political and Administrative Reforms
	Catalina, Amy. Electoral Reform and National Security in Japan: From Pork to Foreign Policy. Cambridge: Cambridge University Press, 2016. (Chapter 2, Chapter 5) Shinoda, Tomohito. Contemporary Japanese Politics: Institutional Changes and Power Shifts. New York: Columbia University Press, 2013.
	Instructor :
	Independent Study Outside of Class : Independent study and research (preparation of written contribution)
11th	Title:The DPJ Administration and Foreign Policy
	Kushida, Kenji E. and Phillip Y. Lipscy, eds. Japan under the DPJ: The Politics of Transition and Governance.” (Chapter 12, Chapter 13)
	Instructor :
	Independent Study Outside of Class : Panel discussion
12th	Title:Japan and International Security
	• Oros, L. Andrew. Japan's Security Renaissance: New Policies and Politics for the Twenty-first Century. Columbia University Press: New York, 2017. (Chapter 3,6,7) • Milford, Paul. Rethinking Japanese Public Opinion and Security: From Pacifism to Realism. Stanford: Stanford University Press, 2011. (Chapter 10) • Modern article – TBA
	Instructor :
	Independent Study Outside of Class : Lecture
13th	Title:Proactive Pacifism

		Maslow, Sebastian. “A Blueprint for a Strong Japan.” Asian Survey 55, no.4 (2015): 739-756. Easley, Leaf-Eric. “ How Proactive? How Pacifist? Charting Japan’s Evolving Defense Posture.” Australian Journal of International Affairs 71, no. 1 (2017): 63-87. Lind, Jennifer. “Japan’s Security Evolution.” Policy Analysis no. 788 (February 25, 2016): 1-12.
		Instructor :
		Independent Study Outside of Class : Independent study and research (preparation of written contribution)
	14th	Title:Foreign Policy under Abe
		Hughes, Cristopher W. Japan’s Foreign and Security Policy under the Abe Doctrine: New Dynamism or New Dead End?. New York: Palgrave MacMillan, 2015. (Chapter 4-6) Hagström, Linus and Karl Gustafsson. “Japan and Identity Change: Why it Matters in International Relations?.” The Pacific Review 28, no. 1 (2015): 1-22.
		Instructor :
		Independent Study Outside of Class : Panel discussion
	15th	Title:Evaluation
		Written examination
		Instructor :
		Independent Study Outside of Class : Write 2 mini essays out of 4 offered questions
Textbooks		
Reference		Daisuke Akimoto. 2018. The Abe Doctrine: Japan’s Proactive Pacifism and Security Strategy. Singapore: Palgrave Macmillan. Chalmers Johnson. 1982. MITI and the Japanese Miracle: The Growth of Industrial Policy, 1925-1975. Stanford: Stanford University Press. Christopher W. Hughes. 2015. Japan’s Foreign and Security Policy under the Abe Doctrine: New Dynamism or New Dead End?. New York: Palgrave Macmillan. Makoto Iokibe. 2011. The Diplomatic History of Postwar Japan. London: Rutledge. Takasgi Inoguchi, G. John Ikenberry, and Yoichiro Sato, eds. 2011. The U.S.-Japan Security Alliance: Regional Multilateralism. New York: Palgrave Macmillan. Marius B. Jansen. 2000. The Making of Modern Japan. Harvard University Press: Cambridge. Tim F. Liao, Kimie Hara, and Krista Wiegand, eds. 2016. The China-Japan Border Dispute: Islands of Contention in Multidisciplinary Perspective. New York: Routledge. Kenji E. Kushida and Philip Y. Lipscy. 2013. Japan under the DPJ: The Politics of Transition and Governance. Baltimore: Brookings Institute. Andrew L. Oros. 2017. Japan's Security Renaissance: New Policies and Politics for the Twenty-first Century. New York: Columbia University Press: New York.

	Tomohito Shinoda.2007. Koizumi Diplomacy: Japan’s Kantei Approach to Foreign and Defense Affairs. London: Washington University Press.
Grading Policy *Hover the mouse over the number of a learning goal to view the full text of it.	<table><tr><th>Evaluation Methods</th><th>Report/paper</th><th>Presentation</th><th>Final exam</th><th>Learning engagement</th><th></th></tr><tr><th>Learning Goals1</th><td>○</td><td>○</td><td>○</td><td>○</td><td></td></tr><tr><th>Allocation of Marks</th><td>30%</td><td>30%</td><td>30%</td><td>10%</td><td></td></tr></table>
Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	This course will be conducted in hybrid form, with a mixture of in-person/Zoom meetings, and on demand content.
Office Hours	
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
No data found					

Cautions for Students

シラバス参照

<<Last Updated:2025/02/20>>

Course Schedule Information

Course Code	881269
Semester	Fall and Winter Term
Day and Period	Mon3
Course Name (Japanese)	東アジア政治学
Course Name	East Asian Politics
Capacity	0
Room	Online
Course Numbering Code	88INES9U100
Required/Optional	受講対象：特別聴講学生のみ Z26071
Type of Class	Seminar Subject
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	POZSGAI ALVAREZ Joseph
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	East Asian Politics
Language of the Course	English

Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video) Reading: Reading books and academic papers (e.g., summarizing an academic paper, reading information on a website) Discussion: Learning through question-and-answer interactions and exchanges of opinions among students and between students and the instructor (e.g., pair/group discussion, online chat, one-on-one guidance for writing an academic paper) Collaborative work: Working as a pair or a group (e.g., producing a poster through group work) Presentation: Writing papers, making presentations, and creating works (e.g., report writing, oral/poster presentation, creation of works, portfolio development)
Course Objectives	The countries of East Asia offer a large variety of political structures that affect the way they interact with their citizens and with each other. This course serves as a broad survey of their constitutional, legal, and electoral systems as they relate to the workings of the government and the activities of their civil societies. To cover as much as possible, this course divides the countries of the region within a typology of regimes: closed autocracies, electoral authoritarianism, defective democracies, and stable democracies. This course also looks at the region as a whole, concerning the formation of regional ties and the protection of their peoples.
Learning Goals	**1** (1) Knowledge: After taking this course, students will be able to understand the political conditions in different countries of East Asia and the way they affect the citizens. (2) Skills: After taking this course, students will be able to recognize the meaning of emerging policies and development issues in the region.
Requirements, Prerequisites	
Attendance and Student Conduct Policy	
Class Plan	

1st	Title:Introduction: East Asian Politics
	The introductory class focuses on a general review of politics in East and Southeast Asia.
	Instructor :
	Independent Study Outside of Class :
2nd	Title:The politics of development in East Asia
	The concept of the Developmental State is reviewed.
	Instructor :
	Independent Study Outside of Class : Öniş, Z. (1991). The logic of the developmental state. Comparative Politics, Vol. 24, No. 1, pp. 109-126.
3rd	Title:Closed autocracies I: Brunei, North Korea and Vietnam
	First week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Brunei. Freedom in the World 2020. https://freedomhouse.org/country/brunei/freedom-world/2020; Freedom House. (2020) North Korea. Freedom in the World 2020. https://freedomhouse.org/country/north-korea/freedom-world/2020; Freedom House. (2020) Vietnam. Freedom in the World 2020. https://freedomhouse.org/country/vietnam/freedom-world/2020.
4th	Title:Closed autocracies II: Laos and Thailand
	Second week of country-specific discussions.

	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Laos. Freedom in the World 2020. https://freedomhouse.org/country/laos/freedom-world/2020; Freedom House. (2020) Thailand. Freedom in the World 2020. https://freedomhouse.org/country/thailand/freedom-world/2020.
5th	Title:Closed autocracies III: China and Hong Kong
	Third week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) China. Freedom in the World 2020. https://freedomhouse.org/country/china/freedom-world/2020; Freedom House. (2020) Hong Kong. Freedom in the World 2020. https://freedomhouse.org/country/hong-kong/freedom-world/2020.
6th	Title:Electoral authoritarianism I: Cambodia and Malaysia
	Fourth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Cambodia. Freedom in the World 2020. https://freedomhouse.org/country/cambodia/freedom-world/2020; Freedom House. (2020) Malaysia. Freedom in the World 2020. https://freedomhouse.org/country/malaysia/freedom-world/2020.
7th	Title:Electoral authoritarianism II: Singapore and Myanmar
	Fifth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Singapore. Freedom in the World 2020. https://freedomhouse.org/country/singapore/freedom-world/2020; Freedom House. (2020) Myanmar. Freedom in the World 2020. https://freedomhouse.org/country/myanmar/freedom-world/2020.
8th	Title:Mid-term presentation
	Students give a presentation of politics in one country from East or Southeast Asia
	Instructor :
	Independent Study Outside of Class :
9th	Title:Defective democracies I: Philippines
	Sixth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Philippines. Freedom in the World 2020. https://freedomhouse.org/country/philippines/freedom-world/2020
10th	Title:Defective democracies II: Indonesia
	Seventh week of country-specific discussions.
	Instructor :

	Independent Study Outside of Class : Readings: Freedom House. (2020) Indonesia. Freedom in the World 2020. https://freedomhouse.org/country/indonesia/freedom-world/2020
11th	Title:Stable democracies: Taiwan, South Korea, and Japan
	Eight week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Taiwan. Freedom in the World 2020. https://freedomhouse.org/country/taiwan/freedom-world/2020; Freedom House. (2020) South Korea. Freedom in the World 2020. https://freedomhouse.org/country/south-korea/freedom-world/2020; Freedom House. (2020) Japan. Freedom in the World 2020. https://freedomhouse.org/country/japan/freedom-world/2020.
12th	Title:Problems in the neighbourhood? China and Southeast Asia
	This class focuses on the international dynamics in this part of the world.
	Instructor :
	Independent Study Outside of Class : Problems in the neighbourhood? China and Southeast Asia
13th	Title:Human security challenges in the region I
	Students learn and discuss about the human and national security challenges affecting countries in the region.
	Instructor :
	Independent Study Outside of Class : Video: (2020) War For Water: What Happens When Asia's Rivers Dry Up? CNA Insider. https://www.youtube.com/watch?v=oL-ejcX7GLA
14th	Title:Human security challenges in the region II
	Students learn and discuss about the human and national security challenges affecting countries in the region.
	Instructor :
	Independent Study Outside of Class :
15th	Title:Final - Group presentations I
	Topic to be informed.
	Instructor :
	Independent Study Outside of Class :
16th	Title:Final - Group presentations II
	Topic to be informed.
	Instructor :
	Independent Study Outside of Class :
17th	Title:Introduction: East Asian Politics
	The introductory class focuses on a general review of politics in East and Southeast Asia.
	Instructor :
	Independent Study Outside of Class :

18th	Title:The politics of development in East Asia
	The concept of the Developmental State is reviewed.
	Instructor :
	Independent Study Outside of Class : Öniş, Z. (1991). The logic of the developmental state. Comparative Politics, Vol. 24, No. 1, pp. 109-126.
19th	Title:Closed autocracies I: Brunei, North Korea and Vietnam
	First week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Brunei. Freedom in the World 2020. https://freedomhouse.org/country/brunei/freedom-world/2020; Freedom House. (2020) North Korea. Freedom in the World 2020. https://freedomhouse.org/country/north-korea/freedom-world/2020; Freedom House. (2020) Vietnam. Freedom in the World 2020. https://freedomhouse.org/country/vietnam/freedom-world/2020.
20th	Title:Closed autocracies II: Laos and Thailand
	Second week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Laos. Freedom in the World 2020. https://freedomhouse.org/country/laos/freedom-world/2020; Freedom House. (2020) Thailand. Freedom in the World 2020. https://freedomhouse.org/country/thailand/freedom-world/2020.
21st	Title:Closed autocracies III: China and Hong Kong
	Third week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) China. Freedom in the World 2020. https://freedomhouse.org/country/china/freedom-world/2020; Freedom House. (2020) Hong Kong. Freedom in the World 2020. https://freedomhouse.org/country/hong-kong/freedom-world/2020.
22nd	Title:Electoral authoritarianism I: Cambodia and Malaysia
	Fourth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Cambodia. Freedom in the World 2020. https://freedomhouse.org/country/cambodia/freedom-world/2020; Freedom House. (2020) Malaysia. Freedom in the World 2020. https://freedomhouse.org/country/malaysia/freedom-world/2020.
23rd	Title:Electoral authoritarianism II: Singapore and Myanmar
	Fifth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Singapore. Freedom in the World 2020. https://freedomhouse.org/country/singapore/freedom-world/2020; Freedom House. (2020) Myanmar. Freedom in the World 2020. https://freedomhouse.org/country/myanmar/freedom-world/2020.

24th	Title:Mid-term presentation
	Students give a presentation of politics in one country from East or Southeast Asia
	Instructor :
	Independent Study Outside of Class :
25th	Title:Defective democracies I: Philippines
	Sixth week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Philippines. Freedom in the World 2020. https://freedomhouse.org/country/philippines/freedom-world/2020
26th	Title:Defective democracies II: Indonesia
	Seventh week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Indonesia. Freedom in the World 2020. https://freedomhouse.org/country/indonesia/freedom-world/2020
27th	Title:Stable democracies: Taiwan, South Korea, and Japan
	Eight week of country-specific discussions.
	Instructor :
	Independent Study Outside of Class : Readings: Freedom House. (2020) Taiwan. Freedom in the World 2020. https://freedomhouse.org/country/taiwan/freedom-world/2020; Freedom House. (2020) South Korea. Freedom in the World 2020. https://freedomhouse.org/country/south-korea/freedom-world/2020; Freedom House. (2020) Japan. Freedom in the World 2020. https://freedomhouse.org/country/japan/freedom-world/2020.
28th	Title:Problems in the neighbourhood? China and Southeast Asia
	This class focuses on the international dynamics in this part of the world.
	Instructor :
	Independent Study Outside of Class : Problems in the neighbourhood? China and Southeast Asia
29th	Title:Human security challenges in the region I
	Students learn and discuss about the human and national security challenges affecting countries in the region.
	Instructor :
	Independent Study Outside of Class : Video: (2020) War For Water: What Happens When Asia's Rivers Dry Up? CNA Insider. https://www.youtube.com/watch?v=oL-ejcX7GLA
30th	Title:Human security challenges in the region II
	Students learn and discuss about the human and national security challenges affecting countries in the region.
	Instructor :
	Independent Study Outside of Class :

	31st	Title:Final - Group presentations I
		Topic to be informed.
		Instructor :
		Independent Study Outside of Class :
	32nd	Title:Final - Group presentations II
		Topic to be informed.
		Instructor :
		Independent Study Outside of Class :

Textbooks	For all sessions, both remote and in-person, reading and other related materials will be provided in digital form ahead of time.
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	Learning engagement	Presentation	Final exam		
Learning Goals1	○	○	○		
Allocation of Marks	30%	35%	35%		

Additional Information on Grading

Students are expected to (1) participate in class and (2) take the examinations. All scores on exams and activities will be based on 100 points. The final grade for this course will be determined by the following formula:

In-class participation, reading questions & assignments: 30%
Mid-term review: 35%
Final group presentation: 35%

Late submission of assignments will be penalized with a 90% cap for the first 24 hours, and an additional 5% penalty for each day thereafter.

Reasonable Accommodation

・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center.

・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center.
Website : https://acs.hacc.osaka-u.ac.jp
Tel : 06-6850-6107
E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp

Special Note	
Office Hours	
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
No data found					

Cautions for Students

シラバス参照

<<Last Updated:2025/03/13>>

Course Schedule Information

Course Code	881271
Semester	Fall and Winter Term
Day and Period	Mon4
Course Name (Japanese)	21世紀の電気工学
Course Name	Electrical Engineering in the 21st Century
Capacity	0
Room	School of Engineering/E1-217
Course Numbering Code	88INES9U100
Required/Optional	
Type of Class	
Credits	2.0
Student Year	1,2,3,4,5,6
Instructor	FUNAKI Tsuyoshi
Course of Media Class	Not Applicable

※About Course of Media Class
"Course of Media Class" are classes in which more than half of the classes are held in places other than classrooms by making advanced use of various media.
Undergraduate students can include up to 60 credits in media class course as requirements for graduation.
Even if this is not the case, we may hold classes using the media.

Detailed Syllabus Information

Course Subtitle	Electrical Engineering in the 21st Century
Language of the Course	English
Learning Methods	Listening and watching face-to-face/online class: Listening and watching a lecture, video, or demonstration, face-to-face or via online (e.g., attending a face-to-face lecture, watching an on-demand video)
Course Objectives	This course explores two categories of electrical engineering in the 21st century, that is, 1) systems, control and power engineering, and 2) electromagnetic energy engineering. In this course, professors and associate professors of the Department of Electrical and Electronic Systems, Division of Electrical, Electronic and Information Engineering, Graduate School of Engineering, Osaka University will give lectures to the students every week about topics of present research, so that they will be exposed to wide areas of electrical engineering in the 21st century.

Learning Goals	**1**	By acquiring knowledge of the latest technologies in the field of electrical engineering through lectures, students will be able to discuss strategies for achieving a sustainable society.
Requirements, Prerequisites	It is required to attend at least two-thirds of the total class sessions. If the number of attendances falls below this threshold, the student will not be eligible for grade evaluation.	
Attendance and Student Conduct Policy	Students who are not present in the classroom at the start of the class will be considered absent. However, exceptions will be made for unavoidable circumstances such as infectious diseases or bereavement to ensure that students do not face academic disadvantages.	
Class Plan		
	1st	Title:Inteligent Systems Part 1: Discrete Event Systems
		A discrete event system is an event-driven dynamical system. A manufacturing system is a typical example that can be regarded as a discrete event system. In this lecture, modeling frameworks for discrete event systems are introduced.
		Instructor : (Prof. Shigemasa Takai
		Independent Study Outside of Class : Review using the lecture materials.
	2nd	Title:Inteligent Systems Part 2: Machine Learning
		Machine learning (ML) has become indispensable in fields such as robotics, control, and electrical engineering. This lecture introduces fundamental concepts of deep neural networks (DNNs), a prominent ML technology.
		Instructor : Associate prof. Kazumune Hashimoto
		Independent Study Outside of Class : Review using the lecture materials.
	3rd	Title:Power and Energy Systems 1
		Power electronics is a technology for conversion of electical energy. Its current and future applications are introduced in this lectrure, including hot topics such as renewable power generation, wireless power transfer, electrical vehical, etc.
		Instructor : Prof. Tsuyoshi FUNAKI
		Independent Study Outside of Class : Review using the lecture materials.
	4th	Title:Power and Energy Systems 2
		Lectures focus on energy management technologies on the basis of electric power utilization. Basic principles of renewable energy, power storage, and energy-saving power conversion technologies based on power electronics will be explained.
		Instructor : Associate Prof. Takaaki IBUCHI
		Independent Study Outside of Class : Review using the lecture materials.
	5th	Title:Remote Sensing of Precipitation
		Remote sensing technique of precipitation will be introduced, mainly focusing on radar technologies and satellite observation.
		Instructor : Prof. Tomoo Ushio
		Independent Study Outside of Class : Review using the lecture materials.
	6th	Title:High-energy Atmospheric Physics
		Theory, sensing technology, and latest topics of high-energy atmospheric physics will be introduced.
		Instructor : Assistant Prof. Yuuki Wada
		Independent Study Outside of Class : Review using the lecture materials.

7th	Title:Extreme Plasma Science and Engineering I Laboratory Astrophysics
	We investigate extreme plasmas from laboratories to the universe and develop the relevant fields of science and engineering, such as astrophysics, space physics, laser, and plasma physics. Based on these we develop technological innovations leading to medical and industrial applications.
	Instructor : Prof. Yasuhiro Kuramitsu
	Independent Study Outside of Class : Review using the lecture materials.
8th	Title:Extreme Plasma Science and Engineering II Nuclear Fusion Energy
	Nuclear fusion energy is attracting attention as a promising approach to solving environmental and energy problems. The fundamentals of nuclear reactions, including nuclear fusion, stars as a fusion plant in space, and the current and future development of fusion power generation are presented.
	Instructor : Associate Prof. Hideaki Habara
	Independent Study Outside of Class : Review using the lecture materials.
9th	Title:Advanced Plasma Engineering
	In this lecture, we introduce topics arising from plasma-material interactions that are of technological and scientific interest, such as plasma processing of materials and magnetic fusion plasmas. We cover some basic physical principles, applications, and future outlook.
	Instructor : Associate prof. Heun Tae Lee
	Independent Study Outside of Class : Review using the lecture materials.
10th	Title:Laser 1
	TBD
	Instructor : Prof.. Ryosuke KODAMA
	Independent Study Outside of Class : Review using the lecture materials.
11th	Title:Laser 2
	TBD
	Instructor : Associate Prof. Norimasa OZAKI
	Independent Study Outside of Class : Review using the lecture materials.
12th	Title:Advanced Beam Systems Engineering
	Electron cyclotron resonance (ECR) ion sources have been widely used for production of high intensity multicharged ion beams for accelerators, heavy particle cancer radiotherapy, space propulsion, bio-nano materials, as well as implantation in industrial applications. With promoting basic and applied researches of ECR plasma, we are conducting research and development with respect to new beam source responsible for the next generation.
	Instructor : Associate Prof. Yuushi KATO
	Independent Study Outside of Class : Review using the lecture materials.
13th	Title:Laser fusion engineering
	Controlled fusion burning and ignition was achieved at the National Ignition Facility in 2022. Laser fusion reactors are expected to be realized. A laser fusion system includes several sub-systems: laser, blanket, tritium recovery, target production, energy

	conversion, etc. All laser fusion systems are briefly introduced.
	Instructor : Akifumi IWAMOTO
	Independent Study Outside of Class : Review using the lecture materials.
14th	Title:Radiation-Hydrodynamics and Laser-Matter Interaction
	Recent activities on researches of laser-matter interaction phsics are introduced. The lecture will be given so beginners can understand easily.
	Instructor : Prof. M. MURAKAMI
	Independent Study Outside of Class : Review using the lecture materials.
15th	Title:Terahertz Spectroscopy and the Applications
	We introduce terahertz waves, electromagnetic radiation between light and radio waves, and explore the unique methods and mechanisms of terahertz time-domain spectroscopy and its various applications.
	Instructor : Prof. M. NAKAJIMA
	Independent Study Outside of Class : Review using the lecture materials.

Textbooks	No particular textbook is used. Materials/slide supplements will be provided.
Reference	

Grading Policy
***Hover the mouse over the number of a learning goal to view the full text of it.**

Evaluation Methods	**Report/paper**				
Learning Goals1	○				
Allocation of Marks	100%				

Additional Information on Grading	
Reasonable Accommodation	・If you need reasonable accommodation to participate in this class due to disability (including intractable disease and chronic condition), please contact the office for students with disabilities (e.g., Educational Affairs Section, Academic Affairs Section, Student Affairs Section) at your school/faculty or graduate school, or the Disability Advisory and Support Service Office of the Health and Counseling Center. ・For more information, please visit the following website or contact the Disability Advisory and Support Service Office of the Health and Counseling Center. Website : https://acs.hacc.osaka-u.ac.jp Tel : 06-6850-6107 E-mail : campuslifekenkou-acs@office.osaka-u.ac.jp
Special Note	
Office Hours	
Course Conducted by Instructors with Practical Experience	

Instructor(s)

Instructor Name	Name (hiragana)	Affiliation, Title, Course	Office	Extension	E-mail
舟木剛/Tsuyoshi FUNAKI	ふなきつよし	電気電子情報通信工学専攻・ 教授・システム制御工学講座	E2-111	7709	funaki@eei.eng.osaka-u.ac.jp

Cautions for Students