

2025 年度シラバス

科目分類/Subject Categories			
学部等/Faculty	/工 芸 学 部 : /School of Science and Technology	今年度開講/Availability	/有 : /Available
学域等/Field	/全学共通科目 : /Program-wide Subjects	年次/Year	/2 年次 : /2nd Year
課程等/Program	/英語教育科目 : /English	学期/Semester	/後学期 : /Second term
分類/Category	/ : /	曜日時限/Day & Period	/木 2 : /Thu.2

科目情報/Course Information				
時間割番号 /Timetable Number	10224206			
科目番号 /Course Number	10261036			
単位数/Credits	2			
授業形態 /Course Type	講義・演習：Lecture/Practicum			
クラス/Class	h			
授業科目名 /Course Title	English for Sciences and Humanities B：English for Sciences and Humanities B			
担当教員名 / Instructor(s)	/林 千恵子：HAYASHI Chieko			
その他/Other	インターンシップ実施科目 Internship	国際科学技術コース提供科目 IGP	PBL 実施科目 Project Based Learning	DX 活用科目 ICT Usage in Learning
	実務経験のある教員による科目 Practical Teacher			
科目ナンバリング /Numbering Code				

授業の目的・概要 Objectives and Outline of the Course	
日	化学分野で研究を進めていくためには、研究室や職場や学界で、様々な文化的圏の出身者と協働し、議論することが必要となる。今後、化学専攻の学生に不可欠となるのは、専門分野の内容を自分の頭で十分に理解できる力であり、また、英語で自分の考えを効果的に伝えられるスキルである。この授業では、①基本的な英語の科学用語や正確な表現を習得し、②科学記事や論文を正確に理解し、それについて明確な説明やプレゼンができるようになることを目指す。
英	Advancing research in chemistry requires collaboration and discussion with individuals from diverse cultural backgrounds in laboratories, workplaces, and academic settings. For chemistry students, it is essential not only to develop a deep understanding of their field but also to effectively communicate their ideas in English. This course aims to: 1. Equip students with fundamental scientific terminology and expressions in English. 2. Enhance their ability to comprehend scientific articles and papers, as well as to explain and present their content clearly.

学習の到達目標 Learning Objectives	
日	基本的な英語の科学用語や表現を正確に発音できるようになる。 化学や関連分野の学術的な文章を読み、理解できる力を養う。 自分で情報を収集して検証し、批判的に考察する。 口頭発表やポスター発表を通して、自身の考えを自信をもって発表する。
英	Pronounce basic English scientific terms and expressions accurately. Improve their ability to read and comprehend academic texts in chemistry and related scientific fields. Develop skills in gathering, verifying, and critically analysing information.

	Build confidence in presenting ideas through oral and poster presentations.
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学習目標の達成度の評価基準 / Fulfillment of Course Goals (JABEE 関連科目のみ)	
日	
英	

授業計画項目 Course Plan			
No.		項目 Topics	内容 Content
1	日	Orientation	Explanation of class content, textbooks, class procedures, and evaluation methods
	英	Orientation	Explanation of class content, textbooks, class procedures, and evaluation methods
2	日	Unit 1	① 46. Reflection of light ② Unit 1 Tylenol Scare ※① and ② refer to the numbers of the textbooks below.
	英	Unit 1	① 46. Reflection of light ② Unit 1 Tylenol Scare ※① and ② refer to the numbers of the textbooks below.
3	日	Unit 2	① 48. Convex lenses ② Unit 2 Apple's International iPhone Throttling ※① and ② refer to the numbers of the textbooks below.
	英	Unit 2	① 48. Convex lenses ② Unit 2 Apple's International iPhone Throttling ※① and ② refer to the numbers of the textbooks below.
4	日	Unit 3	① 49. Properties of sound ② Unit 3 STEAM Education ※① and ② refer to the numbers of the textbooks below.
	英	Unit 3	① 53. Electric power and electric energy ② Unit 4 Reaping the Rewards of Innovation ※① and ② refer to the numbers of the textbooks below.
5	日	Unit 4	① 53. Electric power and electric energy ② Unit 4 Reaping the Rewards of Innovation ※① and ② refer to the numbers of the textbooks below.
	英	Unit 4	Unit 4
6	日	Unit 5	① 56. Direct current and alternating current ② Unit 5 Rare Earth Minerals 5,000 Meters Below ※① and ② refer to the numbers of the textbooks below.
	英	Unit 5	① 56. Direct current and alternating current ② Unit 5 Rare Earth Minerals 5,000 Meters Below ※① and ② refer to the numbers of the textbooks below.
7	日	Unit 6	① 58. Weight and mass ② Unit 8 The Bhopal Disaster: A Perfect Storm ※① and ② refer to the numbers of the textbooks below.
	英	Unit 6	① 58. Weight and mass ② Unit 8 The Bhopal Disaster: A Perfect Storm ※① and ② refer to the numbers of the textbooks below.
8	日	Unit 7	① 59. Water pressure and buoyancy ② Unit 9 What's Happening to Japanese Manufacturers? ※① and ② refer to the numbers of the textbooks below.
	英	Unit 7	① 59. Water pressure and buoyancy ② Unit 9 What's Happening to Japanese Manufacturers? ※① and ② refer to the numbers of the textbooks below.
9	日	Unit 8	① 63. Mechanical energy ② Unit 10 A Healthy Reason for Dog Ownership ※① and ② refer to the numbers of the textbooks below.

	英	Unit 8	① 63. Mechanical energy ② Unit 10 A Healthy Reason for Dog Ownership ※① and ② refer to the numbers of the textbooks below.
10	日	Project step 1: Theme setting and Planning	Project step 1: Theme setting and Planning
	英	Project step 1 : Theme setting and Planning	Project step 1 : Theme setting and Planning
11	日	Project step 2 : Gathering materials and discussion	Project step 2 : Gathering materials and discussion
	英	Project step 2 : Gathering materials and discussion	Project step 2 : Gathering materials and discussion
12	日	Project step 3 : Modifying slides and final adjustments	Project step 3 : Modifying slides and final adjustments
	英	Project step 3 : Modifying slides and final adjustments	Project step 3 : Modifying slides and final adjustments
13	日	Final Presentation (1)	Final Presentation (1)
	英	Final Presentation (1)	Final Presentation (1)
14	日	Final Presentation (2)	Final Presentation (2)
	英	Final Presentation (2)	Final Presentation (2)
15	日	Final exam	Final exam
	英	Final exam	Final exam

履修条件 Prerequisite(s)	
日	
英	

授業時間外学習（予習・復習等） Required study time, Preparation and review	
日	本学では1単位当たりの学修時間を45時間としています。毎回の授業にあわせて事前学修・事後学修を行ってください。
英	Please note that KIT requires 45 hours of study from students to award one credit, including both in-class instructions as well as study outside classes. Students are required for each class and complete the review after each class.

教科書／参考書 Textbooks/Reference Books	
日	①松森靖夫監修、James Miller 執筆 『科学のキホンがこれならわかる！ 新版 英語対訳で読む「理科」入門』（実業之日本社、2020年） ISBN:978-4-408-33952-8 1000円 ②松尾秀樹、Stephen Edward Rife, Alexander A. Bodnar, 藤本温著 『リーディング・クエスト 科学技術の多様な側面を考える』（三修社、2019年） ISBN:978-4-384-33485-2 1700円
英	①Yasuo Matsumori, James Miller, "Science for Beginners in Simple English" (Jitsugyounonihonn, 2020) ISBN:978-4-408-33952-8 ¥1000 ②Hideki Matsuo, Stephen Edward Rife, Alexander A. Bodnar, Tsumoru Fujimoto, "Reading Quest" (Sanshusha, 2019) ISBN:978-4-384-33485-2 ¥1700

成績評価の方法及び基準 Grading Policy	
日	In-class work and pre- and post-class assignments: 30% Final presentation: 20% Final test: 30% E-learning: 20%
英	In-class work and pre- and post-class assignments: 30% Final presentation: 20% Final test: 30%

	E-learning: 20%
留意事項等 Point to consider	
日	1. 原則として、欠席が3回を超えた場合は不合格とする。 2. この授業では、受講生間の直接対話から最大限の成果を得られるようにするため、原則として授業中の勉強においては生成 AI の使用は不可とする。 3. 授業内容は学生の理解度や必要性に応じて変更の可能性がある。
英	1. Those who miss more than three classes are disqualified. 2. In this course, students may not use generative AI tools (e.g. ChatGPT) for in-class work. So that they can get the most out of their in-person interactions. 3. The syllabus is subject to revision based on the needs and abilities of the students.