

## 2026 年度シラバス

科目分類/Subject Categories			
学部等/Faculty	/工芸科学部 : /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	/前学期 : /First term
分類/Category	/:/	曜日時限/Day & Period	/火 2 : /Tue.2

科目情報/Course Information				
時間割番号 /Timetable Number	10215205			
科目番号 /Course Number	10261012			
単位数/Credits	2			
授業形態 /Course Type	講義・演習 : Lecture/Practicum			
クラス/Class	k			
授業科目名 /Course Title	English for Sciences and Humanities A : English for Sciences and Humanities A			
担当教員名 / Instructor(s)	/深田 智 : FUKADA Chie			
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	本授業では、将来 Electronics あるいは設計工学の分野で TECH LEADER となることを目指し、リーディング、ライティング、プレゼンテーションなどの4技能を用いた実践的な活動を通して、学術的な場面で用いる英語力を伸ばすことに重点を置く。学生の専門分野である Electronics もしくは設計工学に関連したトピックを題材に、科学技術の発展と日常生活や社会の相互関係といった側面にも注目しながら考察を加え、資料をもとに自らの考えを英語で表現する力を身につけることを目指す。
英	This course focuses on developing English language skills for use in academic situations through practical activities using the four skills including reading, writing and presentation, with the aim of preparing students to become future TECH LEADERS in the field of electronics and/or design engineering. The course aims to develop students' ability to express their own ideas in English based on materials distributed in class or gathered by the students themselves, through broadening their academic knowledge and directing their awareness to both benefits and drawbacks of technological development to our everyday life and society.

学習の到達目標 Learning Objectives	
日	専門分野に関連する英語で書かれた文章を読み、その内容を理解できる 明確で論理的な学術英語が書ける 自分の考えを臆することなく丁寧に英語で表現できる 異分野・同分野にかかわらず学術英語を使って議論できる
英	To improve the English ability to read and comprehend academic texts in their field To develop clear and structured academic writing skills To express ideas in English intelligibly and without hesitation To discuss any topic by using academic English in both interdisciplinary and professional contexts

学習目標の達成度の評価基準 / Fulfillment of Course Goals (JABEE 関連科目のみ)
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日	
英	

授業計画項目 Course Plan			
No.		項目 Topics	内容 Content
1	日	Orientation, Unit 1	Orientation (Explanation of the textbook, course objectives, tentative class schedule, classroom assignments, etc.) Unit 1: Why is the sky blue?
	英	Orientation, Unit 1	Orientation (Explanation of the textbook, course objectives, tentative class schedule, classroom assignments, etc.) Unit 1: Why is the sky blue?
2	日	Unit 1 (Continued), Unit 2	Unit 1: Why is the sky blue? Unit 2: Are you shorter standing up?
	英	Unit 1 (Continued), Unit 2	Unit 1: Why is the sky blue? Unit 2: Are you shorter standing up?
3	日	Short presentation on the topics of Units 1-2, Review test on Units 1-2	Short Presentation on the topics of Units 1-2 (3-5 mins per group) Review test on Units 1-2
	英	Short presentation on the topics of Units 1-2, Review test on Units 1-2	Short Presentation on the topics of Units 1-2 (3-5 mins per group) Review test on Units 1-2
4	日	Unit 3	Unit 3: Newton's law of motion
	英	Unit 3	Unit 3: Newton's law of motion
5	日	Unit 4	Unit 4: How deep you can go snorkeling?
	英	Unit 4	Unit 4
6	日	Unit 5	Unit 5: Battling against invisible forces
	英	Unit 5	Unit 5: Battling against invisible forces
7	日	Mid-term presentation on the topics of Units 3-5, Review test on Units 3-5	Mid-term presentation on the topics of Units 3-5 (approximately, 5-8 mins per group) Review test on Units 3-5
	英	Mid-term presentation on the topics of Units 3-5, Review test on Units 3-5	Mid-term presentation on the topics of Units 3-5 (approximately, 5-8 mins per group) Review test on Units 3-5
8	日	Unit 6	Unit 6: How can planes fly upside down?
	英	Unit 6	Unit 6: How can planes fly upside down?
9	日	Unit 7	Unit 7: How to hunt rainbows
	英	Unit 7	Unit 7: How to hunt rainbows
10	日	Short Presentation on the topics of Units 6-7, Review test on Units 6-7	Short Presentation on the topics of Units 6-7 (3-5 mins per group) Review test on Units 6-7
	英	Short Presentation on the topics of Units 6-7, Review test on Units 6-7	Short Presentation on the topics of Units 6-7 (3-5 mins per group) Review test on Units 6-7
11	日	Unit 8	Unit 8: Are there sound waves in space?
	英	Unit 8	Unit 8: Are there sound waves in space?
12	日	Unit 9	Unit 9: The wonders of resonance
	英	Unit 9	Unit 9: The wonders of resonance
13	日	Unit 10	Unit 10: Why are so many sparks flying in winter?
	英	Unit 10	Unit 10: Why are so many sparks flying in winter?
14	日	Review test on Units 8-10, Preparation for the final	Review test on Units 8-10 Preparation for the final presentation

	英	presentation	
	英	Review test on Units 8-10, Preparation for the final presentation	Review test on Units 8-10 Preparation for the final presentation
15	日	Final presentation	Final Presentation on the topics of Units 8-10 (8-10 mins per group)
	英	Final presentation	Final Presentation on the topics of Units 8-10 (8-10 mins per group)

履修条件 Prerequisite(s)	
日	特になし。
英	Nothing in particular.

授業時間外学習（予習・復習等） Required study time, Preparation and review	
日	<ul style="list-style-type: none"> <li>・ E-learning</li> <li>・ 授業の前には、テキストの該当箇所を読んでエクササイズを解いてくること。</li> <li>・ プレゼンテーションに向けて、各単元に関連する資料（日常生活への応用例、日常生活での関連事例等）を自分なりに収集しておくこと。</li> <li>・ 自分の専門分野に関連する社会的状況の変化や研究・開発の動向には常に目を向けておくこと。</li> </ul>
英	<ul style="list-style-type: none"> <li>- E-learning</li> <li>- Before each lesson, students are required to read the relevant unit of the textbook and answer to the exercises by themselves.</li> <li>- To give a presentation in class, gather relevant materials for each unit (such as examples of application in daily life or relevant real-life cases).</li> <li>- Students should always pay attention to the changes in social situation and the trends in research and development relevant to their own academic field.</li> </ul>

教科書／参考書 Textbooks/Reference Books	
日	Through the Wonders of Physics: With extracts from Walter Lewin's For the Love of Physics (Tomoko Hanasaki, Eihosha)
英	Through the Wonders of Physics: With extracts from Walter Lewin's For the Love of Physics (Tomoko Hanasaki, Eihosha)

成績評価の方法及び基準 Grading Policy	
日	<ol style="list-style-type: none"> <li>1. E-learning (20%)</li> <li>2. 毎回の授業での課題の遂行 (40%) ※詳細は授業時に伝える。</li> <li>3. Mid-term presentation と他者の発表へのコメントレポート (20%)</li> <li>4. Final presentation と他者の発表へのコメントレポート (20%)</li> </ol>
英	<ol style="list-style-type: none"> <li>1. E-learning (20%)</li> <li>2. Submission of assignments in each class (40%) ※The details will be given in class.</li> <li>3. Mid-term presentation and reports on others' presentations (20%)</li> <li>4. Final presentation and reports on others' presentations (20%)</li> </ol>

留意事項等 Point to consider	
日	<ol style="list-style-type: none"> <li>(1) E-learning に忘れずに取り組むこと。E-learning の課題遂行結果は最終成績の 20 点分となる。</li> <li>(2) 授業内でゲストスピーカーによる講演を実施した場合には、その際の発言やコメント等も評価に組み込む。</li> <li>(3) 本授業に関する質問等がある場合には、chieft@kit.ac.jp に連絡をするか、10 号館 303 の深田研究室に来ること。</li> <li>(4) PC やタブレット、及び、生成 AI の使用に関しては初回授業及び毎回の授業時に指示する。</li> </ol>
英	<ol style="list-style-type: none"> <li>(1) Students are required to engage in E-learning, whose result will count for 20 percent of the final grade.</li> <li>(2) Where a guest speaker delivers a lecture in class, students are expected to make comments or ask questions on the presentation, which will be included in the course evaluation.</li> <li>(3) If you have any questions, please contact me at chieft@kit.ac.jp or visit my office (Building 10, Room 303).</li> <li>(4) Instructions on the use of PCs, tablets and the generative AI will be given in the first class and/or in each class.</li> </ol>

