2025 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	今年度開講/Availability	/有:/Available		
	Technology				
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	/火 1 : /Tue.1		

科目情報/Course Information					
時間割番号	10222101				
/Timetable Number					
科目番号	10261037				
/Course Number					
単位数/Credits	2				
授業形態	講義・演習:Lecture/Practicum				
/Course Type					
クラス/Class	i				
授業科目名	English for Sciences and Humanities B : English for Sciences and Humanities B				
/Course Title					
担当教員名	/深田 智:FUKADA Chie				
/ Instructor(s)					
その他/Other	インターンシップ実施科	国際科学技術	ドコース提供	PBL 実施科目 Project	DX 活用科目
	目 Internship	科目IGP		Based Learning	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。

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

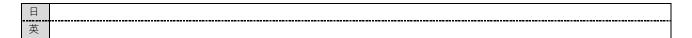
英 To improve the English ability to read and comprehend academic texts in their field

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)



授業計画項目 Course Plan					
No.		項目 Topics	内容 Content		
1	日	導入、Unit 1	オリエンテーション(教科書、授業の進め方、学習方法等の説明), Self-Introduction,		
			Why is the sky blue?		
	英	Orientation, Unit 1	Orientation (Explanation of the textbook, course objectives, tentative class schedule,		
			classroom assignments, etc.), Why is the sky blue?		
2	日	Unit 2	Are you shorter standing up?		
	英	Unit 2	Are you shorter standing up?		
3	日	Unit 3	Newton's law of motion		
	英	Unit 3	Newton's law of motion		
4	日	Unit 4, Unit 5	How deep you can go snorkeling? / Battling against invisible forces		
	英	Unit 4, Unit 5	How deep you can go snorkeling? / Battling against invisible forces		
5	日	Unit 6	How can planes fly upside down?		
	英	Unit 6	Unit 6		
6	日	Unit 7	How to hunt rainbows		
	英	Unit 7	How to hunt rainbows		
7	日	Short presentation	Each student will summarize one of the lectures of Prof. Lewis and give a short-		
			presentation (approximately 5 min) on the topic in class, based on the materials they		
			gathered with their own ideas and experiences incorporated.		
	英	Short presentation	Each student will summarize one of the lectures of Prof. Lewis and give a short-		
			presentation (approximately 5 min) on the topic in class, based on the materials they		
			gathered with their own ideas and experiences incorporated.		
8	日	Unit 8, Unit 9	Are there sound waves in space? / The wonders of resonance		
	英	Unit 8, Unit 9	Are there sound waves in space? / The wonders of resonance		
9	日	Unit 10	Why are so many sparks flying in winter?		
	英	Unit 10	Why are so many sparks flying in winter?		
10	日	Unit 11	Current beneficial and dangerous		
	英	Unit 11	Current beneficial and dangerous		
11	日	Unit 12	Divine sparks		
	英	Unit 12	Divine sparks		
12	日	Unit 13	Earth's magnetic field		
	英	Unit 13	Earth's magnetic field		
13	日	Unit 14	Electromagnetism to rescue		
	英	Unit 14	Electromagnetism to rescue		
14	日	Unit 15	Ways of seeing, Preparation for the final "poster" presentation		
	英	Unit 15	Ways of seeing, Preparation for the final "poster" presentation		
15	日	Final "poster" presentation	Students will give 5-minutes flash talks on their posters individually or in pairs/groups		
			and see one poster presentation and discuss that topic in English (The report should		
			be submitted after the class).		
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			be submitted after the class).		

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

授業時間外学習(予	図・復習等)
Required study time	Preparation and review

日 · E-learning

- ・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。
- ・単元が終わる毎にその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)を収集し、その内容を短い英語にまとめること。(←次週冒頭で発表もしくは Moodle にアップロード)
- ・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。

英 - E-learning

- Before each lesson, students are required to read the relevant unit of the textbook and answer to the exercises by themselves.
- At the end of each unit, gather the material relevant to the unit (e.g. examples of practical applications for everyday life, everyday phenomena related to the topic, etc.) and summarise it briefly in English. (→Present it at the beginning of the next week or upload it to the Moodle).
- Students should always pay attention to the changes in social situation and the trends in research and development relevant to their own academic field.

教科書/参考書 Textbooks/Reference Books

- 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 1. E-learning (20%)
 - 2. 毎回の授業での課題の遂行(40%)※詳細は授業時に伝える。
 - (i) 課題に関しては、時間厳守、内容重視。
 - (ii) 毎回の課題(第7回に行うショートプレゼンテーションのスクリプトの提出、及び、最終ポスタープレゼンテーションでのポスターとフラッシュトークのスクリプトの提出を含む。)
 - 3. 第7回に行うショートプレゼンテーション(発表の実施)とコメントレポート提出(20%)
 - 4. 最終ポスタープレゼンテーション (ポスター展示+フラッシュトーク実施
- 英 1. E-learning (20%)
 - 2. Submission of assignments in each class (40%)

 *The details will be given in class.
 - (i) Punctuality of submission and task achievement are crucial.
 - (ii) The submission of the script of the short presentation in class 7 and the submission of the script and poster of the final poster presentation are included.
 - 3. Mid-term assignment: Short presentation and the submission of the report (20%)
 - 4. Final Assignment: Poster presentation with a flash talk, and the submission of the report on other students' posters. (20%)

留意事項等 Point to consider

- 日 (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。
 - (2) ゲストスピーカーによる講演も予定している。その際の発言等も評価に組み込むため、講演時には、是非積極的に質問等をしてもらいたい。
 - (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。
 - (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。
- 英 (1)Students are required to engage in E-learning, whose result will count for 20 percent of the final grade.
 - (2) Students are expected to proactively ask questions when/if we have a guest speaker in class. Their comments and opinions, etc. will be incorporated into the evaluation.
 - (3) If you have any questions, please contact me at chieft@kit.ac.jp or visit my office (Building 10, Room 303).
 - (4) Instructions on the use of PCs, tablets and the generative AI will be given in the first class and/or in each class.