

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	/無 : /Not 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	/言語教育科目(2023 年度以前入学者) : /Languages(Course for students enrolled before 2023 academic year)	学期/Semester	/前学期 : /First term
分類/Category	/英語 : /English	曜日時限/Day & Period	/ : /

科目情報/Course Information				
時間割番号 /Timetable Number				
科目番号 /Course Number	10061804			
単位数/Credits	1			
授業形態 /Course Type	演習 : Practicum			
クラス/Class	前 a			
授業科目名 /Course Title	Active English Project-Based Learning※再履修者用（2023 年度以前入学者用） : Active English Project-Based Learning			
担当教員名 / Instructor(s)	/(マルコム パーカー) : Malcolm Parker			
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	
英	This practicum in Active English Project-Based Learning is concerned with building a set of language tools related to the field of physics, using those tools in small groups of students whilst engaging with each other in English, and the buiding of a robot, or more correctly automaton, of their own choice.

学習の到達目標 Learning Objectives	
日	
英	To become capable of describing , in English, basic scientific vocabulary, in the field of physics. To become capable of describing , in English, basic scientific concepts, in the field of physics. To build in class, a automaton, over the period of the semester. In the final weeks of the project, to present to the class a demonstration of the device they have created, and an oral presentation about the details of it's purpose and method of construction.

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		

	英	INTRODUCTIONS	Introductions and explanation of the project. Placing into groups/pairs.
2	日		
	英	ASSIGNMENT	Written assignment.
3	日		
	英	ASSIGNMENT	Written assignment.
4	日		
	英	DESIGN	Thinking of a design.
5	日		
	英	MATERIALS	MATERIALS
6	日		
	英	CONSTRUCTION	Construction
7	日		
	英	CONSTRUCTION	Construction
8	日		
	英	CONSTRUCTION	Construction
9	日		
	英	PRESENTATION	Explaining to the rest of the class the project. Improving presentation skills.
10	日		
	英	REFINING YOUR DESIGN	Refining your design
11	日		
	英	REFINING YOUR DESIGN	Refining your design
12	日		
	英	REFINING YOR DESIGN	Refining your design
13	日		
	英	PRESENTATION	Explaining to the rest of the class how your project is proceeding.
14	日		
	英	REFINING YOR DESIGN	Refining your design
15	日		
	英	LAST CHANCE	Last chance

履修条件 Prerequisite(s)		
日		
英	No prerequisites are required for this course. However, an interest in project construction and English scientific language is preferred.	

授業時間外学習（予習・復習等） Required study time, Preparation and review		
日		
英	As in all scientific endeavours, some models will perform better than others. If a group constructs the construction in less than 9 weeks, they may test it and try to improve it's performance. The finished journal for each group must be self-edited, rewritten and printed for the last day of class.	

教科書／参考書 Textbooks/Reference Books		
日		
英	No textbooks are required. Relevant materials will be distributed in class.	

成績評価の方法及び基準 Grading Policy		
日		
英	Grades are based on attendance (30%), class participation (50%), oral presentation (10%), achievement of goal (10%).	

留意事項等 Point to consider		
日		

英	The aim is to build a basic robot of the students choice. Previous projects will be presented to the class. <<Course Goals>> 1. To learn the basic English vocabulary in the field of aeronautics and aerodynamics. 2. To learn the fundamentals of project based design. 3. To actively engage with classmates during the construction process, in English. 4. To keep a weekly journal describing the step by step process of constructing your team's contraption. 5. To write an oral report summarizing your groups building of tour contraption.
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