

2026 年度シラバス

科目分類/Subject Categories			
学部等/Faculty	/大学院工芸科学研究科（博士前期課程）： /Graduate School of Science and Technology (Master's Programs)	今年度開講/Availability	/有：/Available
学域等/Field	/設計工学域：/Academic Field of Engineering Design	年次/Year	/1～2年次：/1st through 2nd Year
課程等/Program	/機械物理学専攻：/Master's Program of Mechanophysics	学期/Semester	/春学期：/Spring term
分類/Category	/授業科目：/Courses	曜日時限/Day & Period	/集中：/Intensive

科目情報/Course Information				
時間割番号 /Timetable Number	62304401			
科目番号 /Course Number	62360111			
単位数/Credits	2			
授業形態 /Course Type	講義：Lecture			
クラス/Class				
授業科目名 /Course Title	Technical Writing & Communication : Technical Writing & Communication			
担当教員名 / Instructor(s)	/(カブリエル トマ) : Gabriel Toma			
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	Science and technology are complex areas with complex ideas. Communicating this complex information in English in both written and oral forms must be done as clearly and effectively as possible. This course will help students learn how to write a clear,
英	Science and technology are complex areas with complex ideas. Communicating this complex information in English in both written and oral forms must be done as clearly and effectively as possible. This course will help students learn how to write a clear, well-organized technical paper about their research by: - Evaluating and writing different types of technical information, - Evaluating and writing the different sections for a final technical paper. Students will also learn how to give an effective presentation of their research by: - Evaluating the different sections of a technical presentation, - Presenting short presentations of their research in class. At the end of the course the students will have acquired the ability to explain their research in English in both written and oral forms.

学習の到達目標 Learning Objectives	
日	Acquire the ability to explain your research in English in both written and oral forms Evaluate and write different types of technical information Evaluate and write the different sections for a final technical paper Evaluate the different sections of a technical presentation

	Present short presentations of your research in class
英	Acquire the ability to explain your research in English in both written and oral forms Evaluate and write different types of technical information Evaluate and write the different sections for a final technical paper Evaluate the different sections of a technical presentation Present short presentations of your research in class

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	Introduction to Technical Writing and Communication	An introduction to the course explaining the course outline, grading and what is expected of the students. What are technical writing and communication? How are they different from general English?
	英	Introduction to Technical Writing and Communication	An introduction to the course explaining the course outline, grading and what is expected of the students. What are technical writing and communication? How are they different from general English?
2	日	The Introduction Section	This session focuses on how to organize and write a good Introduction for a technical paper.
	英	The Introduction Section	This session focuses on how to organize and write a good Introduction for a technical paper.
3	日	The Experimental Section	This session focuses on how to organize and write the Experimental section of a technical paper.
	英	The Experimental Section	This session focuses on how to organize and write the Experimental section of a technical paper.
4	日	Describing Figures	This session will help you learn how to describe the figures, graphs and visuals you include in your technical paper.
	英	Describing Figures	This session will help you learn how to describe the figures, graphs and visuals you include in your technical paper.
5	日	The Results Section	This session focuses on how to organize and write the Results section of a technical paper.
	英	The Results Section	The Results Section
6	日	The Discussion Section	This session focuses on how to organize and write the Discussion section of a technical paper, particularly looking at how to interpret and discuss the results of your research.
	英	The Discussion Section	This session focuses on how to organize and write the Discussion section of a technical paper, particularly looking at how to interpret and discuss the results of your research.
7	日	The Conclusion Section	This session focuses on how to organize and write the Conclusion section of a technical paper, with emphasis on summarizing your research.
	英	The Conclusion Section	This session focuses on how to organize and write the Conclusion section of a technical paper, with emphasis on summarizing your research.
8	日	The Abstract	The Abstract is a concise description of your entire paper. This session focuses on how to organize and write a good Abstract.
	英	The Abstract	The Abstract is a concise description of your entire paper. This session focuses on how to organize and write a good Abstract.
9	日	Delivering Your Presentation Effectively	How you deliver your presentation is important to whether people think your presentation is a success or a failure. In this lesson we will look at many things that are important for delivering a presentation effectively.
	英	Delivering Your Presentation Effectively	How you deliver your presentation is important to whether people think your presentation is a success or a failure. In this lesson we will look at many things that

			are important for delivering a presentation effectively.
10	日	The Introduction - Beginning the Presentation	It is important to have a good Introduction so that you catch the audience's attention. This lesson focuses on the different kinds of information you should tell the audience to prepare them for your presentation.
	英	The Introduction - Beginning the Presentation	It is important to have a good Introduction so that you catch the audience's attention. This lesson focuses on the different kinds of information you should tell the audience to prepare them for your presentation.
11	日	The Body - Describing and Explaining Your Technical Ideas	The Body is the longest and main part of your presentation where you explain your topic and where all your details are presented. We will look at some key points for organizing and delivering the Body of your presentation.
	英	The Body - Describing and Explaining Your Technical Ideas	The Body is the longest and main part of your presentation where you explain your topic and where all your details are presented. We will look at some key points for organizing and delivering the Body of your presentation.
12	日	The Conclusion - Ending the Presentation	A good Conclusion gives the audience a clear summary of your talk so that they can easily remember the main points of your presentation. This session will focus on the contents that are important for a good Conclusion.
	英	The Conclusion - Ending the Presentation	A good Conclusion gives the audience a clear summary of your talk so that they can easily remember the main points of your presentation. This session will focus on the contents that are important for a good Conclusion.
13	日	The Question and Answer Session	This class will provide phrases and techniques for handling the Question and Answer period at the end of your presentation.
	英	The Question and Answer Session	This class will provide phrases and techniques for handling the Question and Answer period at the end of your presentation.
14	日	Student Presentations	Students will give short presentations about their research.
	英	Student Presentations	Students will give short presentations about their research.
15	日	Review and Final Paper Submission	A review of the course will be conducted. Final papers about your research are to be submitted.
	英	Review and Final Paper Submission	A review of the course will be conducted. Final papers about your research are to be submitted.

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	Doc and Ppt files of the lesson material and PowerPoint will be posted on the Moodle website each week. Homework covering each week's lesson will be accepted and returned every week. Students can communicate with the instructor in class, through email, with their homework, or through the Moodle class forum. (If online classes are required, a link to a pre-recorded video of the instructor explaining the lesson material will be posted for viewing by the students.)
英	Doc and Ppt files of the lesson material and PowerPoint will be posted on the Moodle website each week. Homework covering each week's lesson will be accepted and returned every week. Students can communicate with the instructor in class, through email, with their homework, or through the Moodle class forum. (If online classes are required, a link to a pre-recorded video of the instructor explaining the lesson material will be posted for viewing by the students.)

教科書／参考書 Textbooks/Reference Books	
日	The instructor will prepare and distribute materials to the students on Moodle each week before class.
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成績評価の方法及び基準 Grading Policy	
日	50% Weekly writing, based on submission 50% Final paper, based on content
英	50% Weekly writing, based on submission

	50% Final paper, based on content
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留意事項等 Point to consider	
日	Each student will be required to submit an English-language paper about their research at the end of the course.
英	Each student will be required to submit an English-language paper about their research at the end of the course.