

科目ナンバリング		U-LAS70 10002 SE50					
授業科目名 <英訳>	ILAS Seminar-E2 :What is light? (光って何?) ILAS Seminar-E2 :What is light?			担当者所属 職名・氏名	工学研究科 講師 DE ZOYSA , Menaka		
群	少人数群	単位数	2単位	週コマ数	1コマ	授業形態	ゼミナール (対面授業科目)
開講年度・ 開講期	2024・後期	受講定員 (1回生定員)	15 (15) 人	配当学年	主として1回生	対象学生	全学向
曜時限	木5	教室	共北3B			使用言語	英語
キーワード	Photonics / Light / Optics						
[授業の概要・目的]							
This seminar aims for students to learn about the fundamentals of light. Fundamentals of reflection, transmittance, interference, diffraction, emission, and absorption will be explained. Front-line technologies related to light control will also be discussed.							
[到達目標]							
<ul style="list-style-type: none">・ Understand the fundamentals of light.・ Learn about front-line technologies related to light control.							
[授業計画と内容]							
1. Overview of the course, introduction to light (1 week) 2. Fundamentals of light, wave equation (4 weeks) 3. Reflection, transmittance, total internal reflection (3 weeks) 4. Explanation of interference, diffraction, light absorption, and emission (2 weeks) 5. Introduction/discussion of front-line light control technologies (4 weeks) 6. Feedback (1 week)							
[履修要件]							
特になし							
[成績評価の方法・観点]							
Evaluation will be based on participation (30%), discussion (30%), and short reports (40%).							
[教科書]							
使用しない							
[参考書等]							
(参考書) 授業中に紹介する							
[授業外学修 (予習・復習) 等]							
Students are required to do their short reports.							
[その他 (オフィスアワー等)]							
Office hours: Anytime by email, and appointments should be made via email or during the seminars.							