

Course number	U-LAS70 10002 SE50				
Course title (and course title in English)	ILAS Seminar-E2 :What is light? (光って何 ?) ILAS Seminar-E2 :What is light?	Instructor's name, job title, and department of affiliation	Graduate School of Engineering Senior Lecturer,DE ZOYSA , Menaka		
Group	Seminars in Liberal Arts and Sciences	Number of credits	2	Number of weekly time blocks	1
Class style	seminar (Face-to-face course)	Year/semesters	2024 · Second semester	Quota (Freshman)	15 (15)
Target year	Mainly 1st year students	Eligible students	For all majors	Days and periods	Thu.5
Classroom	3B, Yoshida-South Campus Academic Center Bldg. North Wing			Language of instruction	English
Keyword	Photonics / Light / Optics				
[Overview and purpose of the course]					
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.					
[Course objectives]					
<ul style="list-style-type: none"> • Understand the fundamentals of light. • Learn about front-line technologies related to light control. 					
[Course schedule and contents]					
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)					
[Course requirements]					
None					
[Evaluation methods and policy]					
Evaluation will be based on participation (30%), discussion (30%), and short reports (40%).					
[Textbooks]					
Not used					
[References, etc.]					
(References, etc.) Introduced during class					
[Study outside of class (preparation and review)]					
Students are required to do their short reports.					
[Other information (office hours, etc.)]					
Office hours: Anytime by email, and appointments should be made via email or during the seminars.					