

科目ナンバリング		U-LAS12 10027 LE57									
授業科目名 <英訳>		Introduction to Light Control-E2 Introduction to Light Control-E2				担当者所属 職名・氏名		工学研究科 講師 DE ZOYSA , Menaka			
群	自然科学科目群			分野(分類)		物理学(基礎)			使用言語	英語	
旧群	B群	単位数	2単位	週コマ数	1コマ	授業形態	講義（対面授業科目）				
開講年度・ 開講期	2024・前期		曜時限	月3		配当学年	主として2回生	対象学生	理系向		
[授業の概要・目的]											
This course aims to introduce light control techniques and enhance the understanding of cutting-edge photonic technologies. We will start by explaining the fundamentals of light control, followed by a discussion on nanostructure-based cutting-edge photonic technologies.											
[到達目標]											
<ul style="list-style-type: none">Understand the fundamentals of light controlUnderstand nanostructure-based cutting-edge photonic technologies											
[授業計画と内容]											
1. Overview of the course (1 week) 2. Maxwell's equations and basic properties of light (4 weeks) 3. Simulation methods used in light control techniques (3 weeks) 4. Introduction to photonic nanostructures for light control (3 weeks) 5. Nanostructure-based cutting-edge photonic technologies (3 weeks) 6. Feedback (1 week)											
[履修要件]											
Having knowledge of electromagnetism is recommended.											
[成績評価の方法・観点]											
Evaluation will be based on participation (20%), homework (30%), and final examination (50%).											
[教科書]											
使用しない											
[参考書等]											
<p>（参考書）</p> <p>Max Born and Emil Wolf 『Principles of Optics』</p>											
[授業外学修（予習・復習）等]											
Students are required to do their homework. When trouble is encountered during homework, please refer to the recommended textbook or ask the instructor.											
[その他（オフィスアワー等）]											
Office hours: Anytime by email, and appointments should be made via email.											