Course number		U-LAS70 10	U-LAS70 10002 SE50									
Course title ILAS So (and course title in ILAS So English)		Seminar-E2 :Wor conductor (半導体 Seminar-E2 :Wor conductor	eminar-E2 :Wonders of iductor(半導体のふしぎ) eminar-E2 :Wonders of iductor			uctor's job title, department iliation	Graduate School of Engineering Associate Professor,Jorge Luis Puebla Nunez					
Group Seminars in Liberal A			and Sciences	3	Numbo	er of credits	2		Number of weekly 1 time blocks		1	
Class style	sem (Fa	ninar ace-to-face course	() Year/ser	Year/semest		2025 • First	semester		Quota (Freshman)		5 (15)	
Target year	Mai	nly 1st year students	Eligible stud	lent	s Fo	or all majors	Days and periods		ys and riods	Thu.5		
Classroom	Seminar room 23, ILAS Bldg.							Lang	anguage of struction English			
Keyword Semiconductors / Physics / Electronics												
[Overview and purpose of the course]												
This seminar aims for students to understand the physics/working principle behind semiconductor devices such as solar cells, laser diodes, sensors, transistors, etc. Fabrication processes of some semiconductor devices (such as laser diodes and solar cells) will also be discussed. Some electronic circuits will be designed and built to familiarize students with semiconductor devices.												
[Course objectives]												
 Understand the physics/working principle behind semiconductors. Understand the fabrication processes of semiconductor devices. Learn the latest semiconductor technologies. 												
[Course schedule and contents)]												
 Overview of the course (1 week) Introduction to semiconductor physics: basics to understand the working principles of semiconductor devices (3 weeks) 												
 Learn about the working principles of solar cells, laser diodes, sensors, and transistors (4 weeks) Discuss the fabrication processes of some semiconductor devices (2 weeks) Design and build electronic circuits (2 weeks) Learn the latest semiconductor technologies (2 weeks) Feedback (1 week) 												
[Course requirements]												
None												
[Evaluation methods and policy]												
Evaluation	will be	based on participa	ation (30%), o	disc	ussion	1 (30%), and s	short pr	esen	tations (4	40%).		
[. — –		Continue to ILAS	Seminar	E2 :Wonders of ser	niconductor (半導体のふしぎ)(2)	

ILAS Seminar-E2: Wonders of semiconductor (半導体のふしぎ)(2)

[Textbooks]

Not used

[References, etc.]

(References, etc.)

Introduced during class

[Study outside of class (preparation and review)]

Students are required to do their short presentations.

[Other information (office hours, etc.)]

Office hours: Anytime by email, and appointments should be made via email or during the seminars.