Course number	U-LAS20 10006 SE48		
Course title (and course title in English)	Scientific English IA (Reading and Writing) Scientific English IA (Reading and Writing)	Instructor's name, job title, and department of affiliation	Graduate School of Engineering Associate Professor,Chang, Kai-Chun
Group	Languages	Field(Classification)	
Language of instruction	English	Old group	Group C
Number of credits	4		
Number of weekly time blocks	1	Class style	Seminar (Foreign language) (Face-to-face course)
Year/semesters	2026 • Year-round		
Days and periods	Mon.4	Target year	Mainly 1st year students
Eligible students	For science students		

[Overview and purpose of the course]

This course focuses on the two major aspects of scientific English: reading and writing scientific papers. The reading component enhances science and engineering students ' ability to comprehend scientific papers. The writing component assists students in structuring and producing effective scientific papers.

[Course objectives]

* To understand the standard structure of scientific papers.
* To write well-structured and scientifically logic articles.

[Course schedule and contents)]

[1st Semester]
1. Introduction to the course & level test. [1 week] (Lecture)
2. Reading scientific/technical articles; skimming reading & group discussion [2 weeks] (Exercise)
3. Structure of scientific articles: overview [1 week] (Lecture)
4. Building and testing a model: Introduction [2 weeks] (Lecture + Exercise)
5. Building and testing a model: Methodology [2 weeks] (Lecture + Exercise)
6. Building and testing a model: Results [2 weeks] (Lecture + Exercise)
7. Building and testing a model: Discussion/Conclusion [2 weeks] (Lecture + Exercise)
8. Building and testing a model: Abstract [2 weeks] (Lecture + Exercise)
9. Feedback [1 week]

[2nd Semester]
1. Introduction and Review [1 week] (Lecture)
2. The structure of scientific papers; basic rules for scientific papers [1 week] (Lecture)
3. Writing and peer reviewing an Introduction section [2 weeks] (Lecture + Exercise)
4. Writing and peer reviewing a Methodology section [2 weeks] (Lecture + Exercise)
5. Writing and peer reviewing a Results section [2 weeks] (Lecture + Exercise)
6. Writing and peer reviewing a Discussion/Conclusion section [2 weeks] (Lecture + Exercise)
7. Writing and peer reviewing an Abstract [2 weeks] (Lecture + Exercise)
8. Miscellaneous: authors, tables, figures, acknowledgements, references, etc. [2 weeks] (Lecture)
9. Feedback [1 week]

Continue to Scientific English IA (Reading and Writing)(2)↓↓↓

Scientific English IA (Reading and Writing)(2)

[Course requirements]

None

[Evaluation methods and policy]

Class participation/presentation (30%); assignments/reports (70%)

[Textbooks]

Not used
Handouts distributed in class or uploaded to the LMS course site

[References, etc.]

（References, etc.）

Björn Gustavii 『How to write and illustrate a scientific paper, 2nd Ed.』 （Cambridge University Press, 2008） ISBN:978-0521703932
Hilary Glasman-Deal 『Science Research Writing for Non-Native Speakers of English』 （Imperial College Press, 2010）

[Study outside of class (preparation and review)]

Students are expected to read 10 or more scientific/technical articles and to write 5 or more articles.

[Other information (office hours, etc.)]

Any inquiry to the instructor: chang.kaichun.4z{at}kyoto-u.ac.jp. (replace {at} with @)

[Essential courses]