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| <b>Course number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             | U-LAS20 10006 SE48 |                                                  |                                                                    |                                                                        |                          |                               |
| <b>Course title<br/>(and course title in English)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Scientific English IA (Reading and Writing) |                    |                                                  | <b>Instructor's name, job title, and department of affiliation</b> | Graduate School of Engineering<br>Associate Professor, Chang, Kai-Chun |                          |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Scientific English IA (Reading and Writing) |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <b>Group</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Languages                                   |                    |                                                  | <b>Field(Classification)</b>                                       |                                                                        |                          |                               |
| <b>Language of instruction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | English                                     |                    |                                                  | <b>Old group</b>                                                   | Group C                                                                |                          | <b>Number of credits</b><br>4 |
| <b>Number of weekly time blocks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                                           | <b>Class style</b> | Seminar (Foreign language) (Face-to-face course) |                                                                    | <b>Year/semesters</b>                                                  | 2025 • Year-round        |                               |
| <b>Days and periods</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mon.4                                       |                    | <b>Target year</b>                               | Mainly 1st year students                                           |                                                                        | <b>Eligible students</b> | For science students          |
| <b>[Overview and purpose of the course]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <p>This course focuses on two major aspects of scientific English: reading and writing scientific papers. For reading, the course aims to enhance the ability of science and engineering students to read and comprehend scientific papers. For writing, the course assists students in writing well-structured scientific papers.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <b>[Course objectives]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <p>* To understand the structure of scientific papers.<br/>         * To be able to write scientifically logic articles.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <b>[Course schedule and contents)]</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <p>[1st Semester]</p> <ol style="list-style-type: none"> <li>1. Introduction to the course &amp; level test. [1 week] (Lecture)</li> <li>2. Reading scientific/technical articles; skimming reading &amp; group discussion [2 weeks] (Exercise)</li> <li>3. Structure of scientific articles: overview [1 week] (Lecture)</li> <li>4. Building and testing a model: Introduction [2 weeks] (Lecture + Exercise)</li> <li>5. Building and testing a model: Methodology [2 weeks] (Lecture + Exercise)</li> <li>6. Building and testing a model: Results [2 weeks] (Lecture + Exercise)</li> <li>7. Building and testing a model: Discussion/Conclusion [2 weeks] (Lecture + Exercise)</li> <li>8. Building and testing a model: Abstract [2 weeks] (Lecture + Exercise)</li> <li>9. Feedback [1 week]</li> </ol> <p>[2nd Semester]</p> <ol style="list-style-type: none"> <li>1. Introduction and Review [1 week] (Lecture)</li> <li>2. The structure of scientific papers; basic rules for scientific papers [1 week] (Lecture)</li> <li>3. Writing and peer reviewing an Introduction section [2 weeks] (Lecture + Exercise)</li> <li>4. Writing and peer reviewing a Methodology section [2 weeks] (Lecture + Exercise)</li> <li>5. Writing and peer reviewing a Results section [2 weeks] (Lecture + Exercise)</li> <li>6. Writing and peer reviewing a Discussion/Conclusion section [2 weeks] (Lecture + Exercise)</li> <li>7. Writing and peer reviewing an Abstract [2 weeks] (Lecture + Exercise)</li> <li>8. Miscellaneous: authors, tables, figures, acknowledgements, references, etc. [2 weeks] (Lecture)</li> <li>9. Feedback [1 week]</li> </ol> |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |
| <div> <div></div> <div>Continue to Scientific English IA (Reading and Writing)(2) ↓ ↓ ↓</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                             |                    |                                                  |                                                                    |                                                                        |                          |                               |

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 delivered in class or uploaded to the PandA 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 at least 10 scientific/technical articles and to write at least 5 articles.

**[Other information (office hours, etc.)]**

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