

## Practical Technical English

1 unit (selection)

Pankaj Koinkar · DESIGNATED ASSISTANT PROFESSOR / GRADUATE SCHOOL OF ADVANCED TECHNOLOGY AND SCIENCE

**Target)** This course is designed to help student to acquire the basic skills and knowledge required for scientific writing.

**Outline)** In this class student will a. learn strategies used in scientific writing with an emphasis on effective argument, b. review student's writing and revise their writing, c. give an oral presentation on student own technical paper

**Keyword)** *Technical Writing*

**Fundamental Lecture)** “Advanced Technical English”(1.0)

**Relational Lecture)** “Scientific Presentation Skills”(1.0)

**Requirement)** You should have gotten the credit of ”Advanced Technical English.”

**Notice)** This subject is a compulsory one for Nichia STC students. If you are not Nichia STC students and want to attend this class, please contact a coordinator in your department for getting permission of your attendance.

**Goal)**

1. To get ability to know the journalistic nuts and bolts of scientific writing
2. To get ability to discuss what science is, how to write a research paper,
3. To get ability to review topics of scientific importance
4. To get ability to distinguish central concepts from details in structuring scientific writing
5. To get ability to organize and present ideas logically
6. To get ability to write documents used in the sciences and engineering

**Schedule)**

1. Basics of Scientific writing: Introduction to writing in the sciences and the challenges of scientific writing
2. Grammar and punctuation
3. The differences between scientific writing and other forms of writing
4. Describe several kinds of scientific writing and the purpose for each
5. Avoid common errors in scientific writing
6. Troublesome words and Commonly confused words
7. Getting to the point: Components of a research paper
8. Tips on writing Titles, Abstracts, and Introduction, Experimental Procedure
9. Tips on writing Results, Discussions, Conclusions, Acknowledgements and References
10. Visuals and their conventions

11. Writing for Publication: Grammar review of scientific research paper

12. Writing clearly and directly : Write precise and clear sentences and paragraphs

13. Improving scientific writing : Revise for clarity and effectiveness

14. Correcting grammatical flaws in sample texts

15. Ethics and scientific writing Fabrication, plagiarism, common knowledge, attributing authorship

16. Identify and correct common writing problems, Final revision questions and discussion

**Evaluation Criteria)** The overall grade will be based on the mid-term and final examinations and homework assignments.

**Textbook)**

- ◇ S. Bailey, “Academic writing: A Practical guide for students” Nelson Thornes Ltd (2003)
- ◇ Robert A. Day, Barbara Gastel, “How to write and publish a scientific paper”,

**Contents)** <http://cms.db.tokushima-u.ac.jp/cgi-bin/toURL?EID=215956>

**Student)** Nichia STC students and a limited number of students who are permitted to get this subject.

**Contact)**

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