

Practical English 2

Syllabus Number

2G218

Special Subjects

Elective 1 credit

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1. Course Description

With the globalization of science and technology, it is becoming expected for science and engineering students to have the ability to read and write English scientific papers (scientific papers written in English). The aim of this course is, by studying the contents listed in the course outline below, for science and engineering students to acquire the foundations necessary for reading and writing English scientific papers.

1. Methods of reading the formulae, numbers, etc. which often appear in English scientific papers (<1> polygon, <2> sign and symbol, <3> brackets, <4> superscript and subscript, <5> greek alphabet, <6> prefix for units, <7> mathematical relationships, <8> exponential function, <9> N-th root)

2. Examples of basic sentences containing words which appear regularly in various fields of science and engineering (<1> electricity and electronics, <2> machinery, <3> information science)

2. Course Objectives

The aim of this course is, by studying the contents listed in the course outline above, for science and engineering students to acquire the fundamentals necessary for reading and writing English scientific papers.

3. Grading Policy

Performance is evaluated based on in-class quizzes (30%) and periodic examinations (70%).

Overall feedback is provided and test answers are explained during the final lecture.

4. Textbook and Reference

Textbook

Textbook: 白井俊雄 著 『CD BOOK 教養としての理系の英語』 Kindle版(電子書籍)

5. Requirements(Assignments)

Before class: Read in advance the scope of the next lecture in the designated textbook, and sort out the points that you do not understand or have issues with before attending the class. Furthermore, listen several times to the part of the CD corresponding to the scope of the lecture. (1 hour)

After class: Revise the content covered in the previous class, and then make sure you can complete all of the English-to-Japanese translation items without looking at the answer printout. (1 hour)

6. Note

Always bring an English-Japanese dictionary (paper media) or electronic dictionary when attending class.

7. Schedule

- [1] How to read polygon, brackets, etc. that appear in English scientific papers (polygon, sign and symbol, brackets, superscript and subscript, greek alphabet)
- [2] How to read prefix for units, exponential function, etc. that appear in English scientific papers (prefix for units, mathematical relationships, exponential function, n-th root, function)
- [3] How to read logarithmic function, trigonometric function, etc. that appear in English scientific papers (plane figures, logarithmic function, trigonometric function, hyperbolic function, sequence and series)
- [4] How to read vector, differential, etc. that appear in English scientific papers (vector, matrix, permutation and combination, differential, integral)
- [5] Basic sentences in various fields of engineering (force)
- [6] Basic sentences in various fields of engineering (energy)
- [7] Basic sentences in various fields of engineering (pressure)
- [8] Basic sentences in various fields of engineering (temperature and heat)
- [9] Basic sentences in various fields of engineering (sound)
- [10] Basic sentences in various fields of engineering (light)
- [11] Basic sentences in various fields of engineering (magnetism)

- [12] Basic sentences in various fields of engineering (electricity)
- [13] Basic sentences in various fields of engineering (computer)
- [14] Basic sentences in various fields of engineering (robot)
- [15] Test, summary