

Introduction to Contemporary Science and Technology1

Syllabus Number

0L101

General Basic Subjects
Elective 2 credit

SANO Kazumi

1. Course Description

We often see the words "science" and "technology" in our daily lives. So what is the difference between "science" and "technology"? How did science evolve? In this lecture, I will outline the history that modern science has been established from ancient times.

Since science and technology is "live", it is necessary to be interested in cutting-edge science and technology that is updated daily, and to capture science as a part of society. Learn with interest while imagining how science and technology will change the society in the future.

2. Course Objectives

The students understand the history of the development of science and technology, acquire a "scientific" way of thinking and "scientific literacy", and have interest in contemporary science and technology.

3. Grading Policy

In this course, there will be evaluation on two report assignments.
The report will be evaluated whether it is copied from somewhere and using your own opinion.
I will return the report in class.
If there are no more than two-thirds of attendance, no unit will be issued even if only report is submitted.

4. Textbook and Reference

5. Requirements(Assignments)

Please also look into news on science and technology, which is reported in newspaper, TV, Internet news etc.

In each lecture, I will instruct what I want you to prepare and review in the next lesson.

Evaluation will be done in the report. So, please get used to writing the report.

I think that it takes about an hour for preparation review.

6. Note

We will use LMS to prepare for review.

In addition, resume distribution as necessary.

7. Schedule

- | | |
|------|--|
| [1] | Guidance |
| [2] | What is the hottest topic in science now (Science New Stop 10 in 2020) |
| [3] | Science and non-science |
| [4] | What is the idea of scientific things |
| [5] | Group Discussion: Think about "What is Science" and summarize your ideas in a report |
| [6] | Ancient Science 1 - Science of the Ancient World |
| [7] | Ancient Science 2 - The View of Nature in Ancient Greece |
| [8] | Medieval science 1 Arabian science |
| [9] | Medieval Science 2 - Renaissance and Alchemy |
| [10] | The birth of modern science 1 History of development of physics, astronomy |
| [11] | The birth of modern science 2 - History of the development of biology, chemistry |
| [12] | Group discussion: once again thinking "What is science" and summarize my ideas in a report |
| [13] | Relationship between science and society |
| [14] | Future science |
| [15] | Summary of the lecture. Submit the final report |