

Development of Contemporary Science and Technology2

Syllabus Number

0L202

General Basic Subjects
Elective 2 credit

SANO Kazumi

1. Course Description

In this lecture, we discuss the relationship between science and society. We will also focus on the negative aspects of science and technology. It is necessary to capture science as a part of society.

In the first half of the lecture, we will outline the history of the development of science, overlook current cutting-edge science, and look at "the future of science" through discussions with students.

In the second half, we will focus on the problem of scientific communication and introduce techniques to convey science and technology to society.

2. Course Objectives

The students understand the history of the development of science and technology, acquire a "scientific" way of thinking, acquire the ability to see science critically, acquire "scientific literacy", and acquire the skill to summarize their opinions and talk about them.

3. Grading Policy

We will evaluate with 2 report assignments (60%), after lesson reaction paper (30%), attitude and attendance (10%).

The report will be evaluated whether it is copied from somewhere and also answers to questions using their 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

Textbook

Satoru Ikeuchi 科学のこれまで、科学のこれから (Iwanami Booklet No. 902)

ISBN-13: 978-4002709024

Iwanami Shoten

5. Requirements(Assignments)

Please also look into topics on science and technology covered in newspapers, television and the Internet.

Write something about news on science and technology from the previous week.

The slides of this course will be posted on LMS. Please be sure to watch LMS every week for preparation and review. I will instruct the assignment etc of the report in the class.

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. Science that became a hot topic of 2019
- [2] Following the background of latest topics
- [3] Introduction of the 2020 Nobel Prize
- [4] Problems in which modern science is placed
- [5] Group discussion: Science and technology and gender
- [6] Transformation of value of science and technology · Relationship with society
- [7] How to face risk society
- [8] What is trans-science?
- [9] Think about solutions to the trans-science problem
- [10] Scientific literacy and social literacy
- [11] History of scientific communication
- [12] How to convey science and technology
- [13] The heritage of science and the future (planned to watch movies)
- [14] How to hand baton of civilization (plan to watch movies)
- [15] Summary