

科目ナンバリング		G-LAS00 80007 LE20									
授業科目名 ＜英訳＞		Research Ethics and Integrity (Sci. & Tech., Life Sci.) Research Ethics and Integrity (Sci. & Tech., Life Sci.)					担当者所属 職名・氏名		工学研究科 教授 Cathy McNamee		
群	大学院共通科目群			分野(分類)	社会適合			使用言語	英語		
旧群		単位数	0.5単位	時間数	7.5時間	授業形態	講義（メディア授業科目）				
開講年度・ 開講期	2025・ 後期集中		曜時限	集中 後期、土曜日		配当学年	大学院生	対象学生	理系向		
【授業の概要・目的】											
This lecture series will provide graduate students with information on ethics and integrity (science and technology) in the university and society. The lectures will provide various examples of research ethics and research fairness, such as why ethics and integrity are important in science and engineering, moral reasoning in the conduct of science, and how to conduct research while maintaining research standards. The lecturers will also explain how it is important to correctly handle experimental data and to have a sincere attitude toward research. The lecture series will comprise lectures and group work. The students will discuss issues concerning ethics and integrity in science and society. This lecture course will teach the students how act responsibly as a researcher.											
【到達目標】											
The lecture series will show graduate students what responsible behavior is required as a researcher. Case studies and discussions on misconduct in scientific research will allow the students to understand how a researcher can conduct research honestly.											
【授業計画と内容】											
Lecture 1: Research Ethics and Integrity in Science (3 h)											
1. Relation between science and integrity, and responsible conduct of research											
2. Relation between ethics and science											
3. Moral reasoning in the conduct of science											
4. Possible ethical problems in scientific experiments											
Lecture 2: Misconduct in scientific research (3 h)											
1. Misconduct in scientific research											
2. Distinguishing between mistakes made during honest research activities and misconduct											
3. Why scientists/engineers would fabricate, falsify or plagiarize											
4. How to avoid research misconduct											
Lecture 3: Good scientific practice (1.5 h)											
1. Precautions against cutting corners in science											
2. Good scientific practice, and data collection and management											
3. Responsibilities of scientists to society											

Research Ethics and Integrity (Sci. & Tech., Life Sci.)(2)へ続く											

【履修要件】

特になし

【成績評価の方法・観点】

Evaluation is based on participation and submitted reports. Grading will be based on a pass/fail basis. At the end of the course, students must complete the Japan Society for the Promotion of Science e-learning course, "e-Learning Course on Research Ethics".

* Students have to take the e-Learning course offered by JSPS (Japan Society for Promotion of Science). Association for the Promotion of Research Integrity (APRIN) e-learning courses are NOT available.

【教科書】

使用しない

【参考書等】

（参考書）

Francis L. Macrina (ed.) 『Scientific Integrity: Text and Cases in Responsible Conduct of Research』 (ASM Press, 2014) ISBN:978-1555816612

Paul Oliver 『The Student's Guide To Research Ethics』 (Open University Press, 2010) ISBN:978-0335237975

【授業外学修（予習・復習）等】

Review content of lectures before class.

【その他（オフィスアワー等）】

This course is held online.（メディア授業科目）