Course number	G-LAS00 80007 LE20				

Course title (and course title in English)	Research Ethics and Integrity (General) Research Ethics and Integrity (General)	Instructor's name, job title, and department of affiliation	Graduate School of Engineering Professor,Cathy McNamee		

Group	Common Graduate Courses	Field(Classification)	Social Responsibility and Profitability		

Language of instruction	English	Old group		Number of credits	0.5

Hours	7.5	Class style	Lecture (Media-based course)	Year/semesters	2025 Intensive, Second semester

Days and periods	Intensive 2nd semester, on Saturdays	Target year	Graduate students	Eligible students	For all majors

[Overview and purpose of the course]

This lecture series will provide graduate students with information on ethics and integrity (science and humanities) 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 the humanities, ethics and moral reasoning of the researcher, 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. This lecture course will teach the students how act responsibly as a researcher.

[Course objectives]

The lecture series will show graduate students what responsible behavior is required as a researcher. Case studies and discussions on misconduct in research will allow the students to understand how a researcher can conduct research honestly.

[Course schedule and contents)]

Lecture 1: Ethics and Integrity in Science and the Humanities (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 (General)(2)

[Course requirements]

None

[Evaluation methods and policy]

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.

[Textbooks]

Not used

[References, etc.]

References, etc.

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

[Study outside of class (preparation and review)]

Review content of lectures before class.

[Other information (office hours, etc.)]

This course is held online.