

**DOCTORAL SCHOOL OF WROCLAW UNIVERSITY OF SCIENCE AND
TECHNOLOGY**

SUPERVISOR DECLARING/CONDUCTING COURSE: Monika Malek-Orłowska PhD
DEPARTMENT: Department of Humanities and Social Sciences
SCIENTIFIC DISCIPLINE: Ethics

COURSE CARD

Course name in Polish: Etyka nauki i badań naukowych

Course name in English: Ethics of science and research

Course language: ~~English or Polish~~

University-wide general course type*:

The course is intended for all PhD students: YES / NO

~~1) BASIC COURSE~~

~~2) SPECIALIST COURSE~~

~~3) SEMINAR~~

~~4) HUMANISTIC COURSE~~

~~5) LANGUAGE~~

Subject code: DHQ100036S

* delete as applicable

	Lecture	Foreign language course	Seminar	Mixed forms
Number of hours of organized classes in university (ZZU)			30	
Grading	Exam	Exam	Oral presentation	Exam, inspection, evaluation classes
ECTS			0	

PREREQUISITES RELATING TO KNOWLEDGE, SKILLS AND OTHER COMPETENCES

The course is primarily open to all PhD students at the Doctoral School of Wrocław University of Science and Technology.

COURSE OBJECTIVES

C1 To introduce the students to ethical principles related to science and to codes of good research practices.

C2 To explicate the social significance of science and responsibilities related to scientific research.

C3 To develop the skills of the ethical assessment of one's own individual research work.

PROGRAM CONTENTS

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Form of classes		Number of hours
Sem1	Introduction: morality, ethics, law. General and applied ethics; codes of ethics.	2
Sem2	The social significance of science and the researcher ethos.	2
Sem3	Ethical rules of good research practices.	2
Sem4	Research misconduct and other violations in science.	2
Sem5	Ethical publishing and reviewing.	2
Sem6	Conflict of interests: ethical standards and procedures.	2
Sem7	Principles of research involving human participants, part 1.	2
Sem8	Principles of research involving human participants, part 2.	2
Sem9	Principles of research involving animals.	2
Sem10	Ethical aspects of research involving human material or personal data.	2
Sem11	Ethical aspects of new technologies research.	2
Sem12	Ethical aspects of research that might have a negative effect on the environment.	2
Sem13	Fairness, access to research and results, social assessment of science and technology.	2
Sem14	Workshop: Ethical assessment of one's own research project and work, part 1	2
Sem15	Ethical assessment of one's own research project and work, part 2. Course summary.	2
Total hours		30

TEACHING TOOLS USED
N1. Conversation lecture. N2. Group activities (case studies analyses). N3. Brainstorming. N4. Discussion. N5. Presentation.

ACHIEVED SUBJECT LEARNING OUTCOMES		
Type of learning outcome	Code of learning outcome	Assessment of learning outcome
Knowledge	P8S_WK	Oral presentation on the basis of a written assignment
Skills	P8S_UU	Oral presentation on the basis of a written assignment, participation in group activities.
Social competences	P8U_K, P8S_KO	Participation in discussions and group activities; oral presentation.

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PRIMARY AND SECONDARY LITERATURE

PRIMARY LITERATURE:

- [1] *Code of Practice for Research. Promoting Good Practice and Preventing Misconduct*, UK Research Integrity Office, 2019 (online open access).
 - [2] *European Textbook on Ethics in Research*, (ed.) Huges J., European Commission Directorate-General for Research, Publications Office of the European Union, Luxembourg 2010.
 - [3] Koepsel D., *Scientific Integrity and Research Ethics*, Springer International Publishing 2017.
 - [4] Morawski R.Z., *Technoscientific Research*, Wyd. De Gruyter, Berlin/Boston 2019.
 - [5] Schuyt K., *Scientific Integrity. The Rules of Academic Research*, Leiden University Press, 2019.
- Regulatory documents** (ethical and legal): *The European Code of Conduct for Research Integrity*, European Science Foundation, 2011, and selected others.

SECONDARY LITERATURE:

- [1] *A Companion to Ethics*, (ed.) Singer P., Blackwell Publishers, 1993 or later.
- [2] Chyrowicz B., *O sytuacjach bez wyjścia w etyce*, Wydawnictwo Znak, Kraków 2008.
- [3] *Etyczne i prawne granice badań naukowych*, (red.) W.Galewicz, Wydawnictwo Universitas, Kraków 2009.
- [4] Michalski K., *Technology Assessment: ocena technologii. Nowe wyzwania dla filozofii nauki i ogólnej metodologii nauk*, Oficyna Wydawnicza Politechniki Rzeszowskiej, Rzeszów 2019.
- [5] *Research Ethics for Scientists. A Companion for Students*, (ed.) Neal Stewart C. Jr, John Wiley and Sons Ltd. 2011.

SUBJECT SUPERVISOR (NAME AND SURNAME, E-MAIL ADDRESS)

Monika Małek-Orłowska PhD, monika.malek@pwr.edu.pl