

COURSE CARD

1. Basic information

Course name in English:	Ethical and legal aspects of scientific activity		
Course name in Polish:	Aspekty etyczne i prawne działalności naukowej		
Number of hours:	15		
Type of course:	Soft skills course		
Form of course:	lecture		
Code of course:	W08000-SD0087W / DHQ100307W		
Course leader:	Dr.hab. Adriana Merta-Staszczak, prof. uczelni		
Faculty of the course leader:	W8 Faculty of Management		
Email address of the course leader:	Adriana.merta-staszczak@pwr.edu.pl		
Scientific discipline(s) assigned to	Architecture and urban planning		
the course (doctoral students	Automation, electronic, and electrical engineering		
representing the marked disciplines can participate in the	Information and communication technology		
course):	Biomedical engineering	\boxtimes	
	Chemical engineering	\boxtimes	
	Civil engineering and transport	\boxtimes	
	Mechanical engineering		
	Environmental engineering, mining, and energy		
	Mathematics	\boxtimes	
	Chemical sciences		
	Physical sciences		
	Management and quality studies	\boxtimes	

2. Objectives

Analysis of the importance and role of ethics and law in scientific research

Creative resolution of problems related to social responsibility towards the environment

Showing and analyzing scientific research that may have ethical or legal issues

Sensitizing students to ethical and legal problems in science

3. Content

Detailed information about the course content, including topics and form of classes.

No.	Торіс	Number of hours	Form of classes
1	Ethical and legal aspects of scientific research - introduction	1	lecture



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2	Ethical activities in selected economic areas	2	lecture
3	Research ethics	2	lecture
4	Honesty and credibility in science	2	lecture
5	University Social responsibility	1	lecture
6	The problem of personal data protection in scientific research	1	lecture
7	Copyright and freedom of scientific research Rules for using someone else's songs	2	lecture
8	Co-authored works. Contracts for research and development	2	lecture
9	Industrial property law (patents, industrial designs, utility models)	2	lecture

4. Prerequisites

List of prerequisites relating to knowledge, skills and other competences for course participants.

Skills of the interpret the text

Basic skills in analysis and synthesis

5. Learning outcomes

List of learning outcomes at level 8 of the Polish Qualifications Framework assigned to the course (mark the learning outcomes in the last column).

Learning outcome	
KNOWLEDGE. Doctoral student knows and understands:	
the main trends in the development of the scientific or artistic disciplines covered	
in the curricula;	
research methodology;	
the rules for the dissemination of scientific results, including in open access	
mode;	
the fundamental dilemmas of modern civilization;	
the legal and ethical conditions of scientific activity;	\boxtimes
the economic and other relevant conditions of scientific activity;	
basic principles of knowledge transfer to the economic and social spheres and	
commercialisation of results of scientific activity and know-how related to these	
results.	
SKILLS. Doctoral student is able to:	
use knowledge from different fields of science or art to creatively identify,	
	KNOWLEDGE. Doctoral student knows and understands:KNOWLEDGE. Doctoral student knows and understands:the main trends in the development of the scientific or artistic disciplines coveredin the curricula;research methodology;the rules for the dissemination of scientific results, including in open accessmode;the fundamental dilemmas of modern civilization;the legal and ethical conditions of scientific activity;the economic and other relevant conditions of scientific activity;basic principles of knowledge transfer to the economic and social spheres andcommercialisation of results of scientific activity and know-how related to theseresults.SKILLS. Doctoral student is able to:



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other creative work and their contribution to knowledge development;	
transfer the results of scientific activities to the economic and social spheres;	
communicate on specialised topics to the extent that they enable an active	
participation in the international scientific community;	
disseminate research results, including in popular forms;	
initiate debates and participate in a scientific discourse;	
be able to speak a foreign language at B2 level of the Common European	
Framework of Reference for Languages to a level that enables them to participate	
in the international scientific and professional environment;	
plan and implement an individual or collective research or creative activity,	
including in an international environment;	
independently plan and act for one's own development and inspire and organize	
the development of others;	
plan classes or groups of classes and implement them using modern methods and	
tools.	
SOCIAL COMPETENCES. Doctoral student is ready to:	
fulfilling the social obligations of researchers and creators, initiate public interest	\boxtimes
activities, thinking and acting in an entrepreneurial way;	
maintaining and developing the ethos of research and creative environments,	\boxtimes
including:	
- carrying out scientific activities in an independent manner,	
- respecting the principle of public ownership of research results, taking into	
account the principles of intellectual property protection.	
	communicate on specialised topics to the extent that they enable an active participation in the international scientific community; disseminate research results, including in popular forms; initiate debates and participate in a scientific discourse; be able to speak a foreign language at B2 level of the Common European Framework of Reference for Languages to a level that enables them to participate in the international scientific and professional environment; plan and implement an individual or collective research or creative activity, including in an international environment; independently plan and act for one's own development and inspire and organize the development of others; plan classes or groups of classes and implement them using modern methods and tools. <i>SOCIAL COMPETENCES. Doctoral student is ready to:</i> fulfilling the social obligations of researchers and creators, initiate public interest activities, thinking and acting in an entrepreneurial way; maintaining and developing the ethos of research and creative environments, including: - carrying out scientific activities in an independent manner, - respecting the principle of public ownership of research results, taking into

6. Evaluation

Short description of the method(s) used to evaluate the learning outcomes assigned to the course, e.g., exam, test, report, presentation, etc.

Presentation Activity discussion

7. Teaching methods

Short description of the teaching methods used during the course, e.g., multimedia presentation, discussion, literature studies, developing written documents, own work, etc.

Informative lecture

Interactive lecture

Multimedia presentation

Case study



8. Literature

List of primary and secondary literature used to prepare the course and including additional knowledge for participants, e.g., books, textbooks, research papers, standards, web pages, etc.

- [1] Etyka u schyłku drugiego tysiąclecia, pod. red. J. Ziobrowski, Warszawa 2013.
- [2] Etyczne i prawne granice badań naukowych, pod. red. W. Galewicz, Kraków 2009.
- [3] W. Gasparski, Biznes, etyka, odpowiedzialność, Warszawa 2012.
- [4] S. Krimsky, Nauka skorumpowana, Warszawa 2006.
- [5] Prawo autorskie i prawa pokrewne. Prawo prasowe. Ustawa o zwalczaniu nieuczciwej konkurencji. Przepisy, Warszawa 2019 (Wolters Kluwer)
- [6] J. Barta, R. Markiewicz, Prawo autorskie i prawa pokrewne. Przewodnik po polskim i międzynarodowym prawie autorskim, Warszawa 2019.
- [7] A. Nowak-Gruca, Własność intelektualna w przedsiębiorstwie, Warszawa 2018.
- [8] E. Nowińska, U. Promińska, K. Szczepanowska-Kozłowska, Własność przemysłowa i jej ochrona, Warszawa 2014.
- [9] Maciej W. Grabski, Uczciwość i wiarygodność nauki. Praktyka, Nauka 2/2009, s.37-59
- [10] E. Babbie, Podstawy badań społecznych, Warszawa 2009.
- [11] R. Markiewicz, Zabawy z prawem autorskim, Warszawa 2015.
- [12] P. Stec (red.), Komercjalizacja wyników badań naukowych, Warszawa 2017.
- [13] M. Salamonowicz, Treść i charakter prawny umowy o prace badawczo-rozwojowe, Warszawa 2018.

9. Other remarks

Additional remarks, comments, (e.g., language of the course)