

SYLLABUS

1. Information about the study programme

1.1 Institution of higher education	West University of Timisoara
1.2 Faculty	Faculty of Physics and Mathematics
1.3 Department of	Physics
1.4 Field of study	Exact Sciences
1.5 Study cycle	Master
1.6 Study programme	Advanced Research Methods in Physics

2. Information about the subject/discipline

2.1 Name	Ethics of the Research. (Cod ARMP1107)						
2.2 Course coordinator	Prof.dr. Daniel Vizman						
2.3 Seminar coordinator	Prof.dr. Daniel Vizman						
2.4 Year of study	1	2.5 Semester	1	2.6 Type of assessment	E ¹	2.7 Type of discipline	Ob

3. Total estimated time (hours of teaching per semester)²

3.1 Number of hours per week	2	3.2 course	1	3.3 seminar/laboratory	1
3.4 Total hours in the curriculum	28	3.5 course	14	3.6 seminar/laboratory	14
Distribution of time:					hours
Study based on Instructions, course materials, bibliography and notes					8
Additional documentation library, specialized electronic platforms / field					5
Training seminars / laboratories, homework, essays, portfolios and essays					6
Tutoring					
Examinations ³					3
Other activities					
3.7 Total hours of individual study	19				
3.8 Total hours per semester⁴	50				
3.9 Number of credits	2				

4. Prerequisites (where applicable)

¹ According to article 37, paragraph (1) of the Higher Education Law no. 199/2023, with subsequent amendments and additions, "the academic success of a student during a study program is determined by verifying the acquisition of the expected learning outcomes through exam-type evaluations and evaluation throughout the semester".

² The total number of contact hours and individual study hours will be aligned with the number of credits allocated to the course. One credit corresponds to a total between 25 and 30 hours of teaching activities and individual study. At the level of academic departments may establish, by discipline categories, the exact equivalence between one credit and the number of hours.

³ The hours corresponding to examinations are added only to the point 3.8 – The total hours per semester, not to be added to the point 3.7 – Total hours of individual study.

⁴ Total hours per semester = total hours in the curriculum + total hours of individual study + hours allocated to examinations.

4.1 of curriculum	--
4.2 of skills	--

5. Conditions (where applicable)

5.1 for the course	--
5.2 for the seminar	--

6. Discipline objectives - expected learning outcomes which contribute to the completion and passing the discipline

Knowledge	Acquiring theoretical knowledge and practical skills regarding the application of ethical standards in research activities. The objective of this course is to contextualize concepts of ethics and integrity within the academic and scientific environment. Emphasis will be placed on practicing argumentation through discussions and oral presentations.
Skills	• Ability to identify and analyze ethical issues in a real-world situation • Ability to identify and analyze ethical issues in scientific research • Ability to understand the role of ethics in personal, social, and professional development
Responsibility and autonomy	• Carrying out professional tasks efficiently and responsibly, in compliance with the legislation and professional ethics specific to the field. • Applying effective teamwork techniques within a multidisciplinary team. • Efficiently using information sources, communication resources, and assisted professional training resources.

7. Contents

The platform through which the course materials in electronic format and other learning/bibliographic resources can be accessed: google classroom

7.1 Course	Teaching methods	Comments
1. Introduction. Ethics and morality.	The Exposition, The Heuristic Conversation	Google classroom platform
2. Legislation. The Code of University Ethics and Deontology. (2 lectures)	The Exposition, The Heuristic Conversation	Google classroom platform
3. Fundamental principles of academic activity. (2 lectures)	The Exposition, The Heuristic Conversation	Google classroom platform
4. Copyright and intellectual property rights.	The Exposition, The Heuristic Conversation	Google classroom platform
5. Scientific fraud, plagiarism, and duplicate publication. (2 lectures)	The Exposition, The Heuristic Conversation	Google classroom platform
6. Laboratory ethics. Fabrication of results.	The Exposition, The Heuristic Conversation	Google classroom platform
7. Conflict of interest.	The Exposition, The Heuristic Conversation	Google classroom platform

8. Ethics and integrity in conducting research projects.	The Exposition, The Heuristic Conversation	Google classroom platform
9. Ethics of teamwork.	The Exposition, The Heuristic Conversation	Google classroom platform
10. Ethics of the peer review process.	The Exposition, The Heuristic Conversation	Google classroom platform

Bibliography:

1. *Codul de etica si deontologie universitara al Universitatii de Vest din Timisoara*, <https://www.uvt.ro/files/c508b1ca9c5b73dc42afd458775b8484226f0d49/>
2. Macintyre, Alasdair, *Tratat de morală*, Humanitas, 1998.
3. Miroiu, Adrian (ed.), *Etica aplicată*, Editura Alternative, București, 1995.
4. Pleșu, Andrei, *Minima moralia*, Humanitas, București, 2005.

7.2. Seminar	Teaching methods	Comments
1. Analysis of ethical breaches regarding copyright	interactive method	Google classroom platform
2. Analysis of ethical breaches in the peer review process	interactive method	Google classroom platform
3. Preparation and critical analysis of oral presentations	interactive method	Google classroom platform
4. Preparation and critical analysis of poster presentations	interactive method	Google classroom platform
5. Analysis of ethical breaches in laboratory work	interactive method	Google classroom platform
6. Analysis of ethical breaches in drafting a project proposal	interactive method	Google classroom platform
7. Analysis of ethical breaches in teamwork	interactive method	Google classroom platform
8. Ethical evaluation of research project results	interactive method	Google classroom platform

Bibliography:

- *Codul de etica si deontologie universitara al Universitatii de Vest din Timisoara*, <https://www.uvt.ro/files/c508b1ca9c5b73dc42afd458775b8484226f0d49/>
- Macintyre, Alasdair, *Tratat de morală*, Humanitas, 1998.
- Miroiu, Adrian (ed.), *Etica aplicată*, Editura Alternative, București, 1995.
- Pleșu, Andrei, *Minima moralia*, Humanitas, București, 2005....

8. Corroboration of the course contents with the epistemic expectations of the community representative, professional associations and representative employers of the programme itself

The accumulated knowledge is vital for any scientific research activity.

9. Use of tools based on generative artificial intelligence

To complete the tasks defined in the assessment section, the use of AI is permitted for generating ideas/slogans/designs/images/text rewriting, editing/reviewing.

The most well-known examples of generative AI tools include, but are not limited to: ChatGPT, Google Gemini, Copilot for text, or MidJourney for images.

Each student will specify, in a statement written separately for each assignment, according to the model in Annex 3 of the [Regulation on the use of generative artificial intelligence in the educational process at UVT](#), the tool they used, how it was used, and the part of the assignment in which it was used. The statement will be included by the student at the beginning of the submitted assignment.

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Percentage of the final mark
10.4 Course	Level of mastery of acquired knowledge	Oral exam	40 %
10.5 Seminar	Ability to apply acquired knowledge in practice	The assessment will test the ability to analyze a research ethics issue.	60 %
10.6 Minimum performance standards			
1. Basic concepts regarding the identification of plagiarism 2. Basic concepts regarding conflicts of interest 3. Basic concepts regarding teamwork ethics			

Date of submission:

16.09.2026

Titular of the course:

Signature:



Date of approval in department:

HEAD OF THE DEPARTMENT: