

COURSE OUTLINE

1. Study programme information

1.1 Higher education institution	West University of Timisoara
1.2 Faculty / Department	Chemistry, Biology, Geography / Geography
1.3 Sub-department	
1.4 Field of study	Geography
1.5 Level of study	Master's degree
1.6 Study programme / Qualification	Geographic Information Systems

2. Course information

2.1 Course title	Ethics in scientific research						
2.2 Course convenor/ Lecturer	Lect. dr. Andrei Dornik						
2.3 Teaching assistant	Lect. dr. Andrei Dornik						
2.4 Year of study	I	2.5 Semester	I	2.6 Type of assessment	E/C	2.7 Course type	DS/D O

3. Total estimated time (hours of didactic activities per semester)

3.1 Number of hours per week	2	of which: 3.2 lecture	1	3.3 seminar/laboratory	1
3.4 Total hours in the curriculum	28	of which: 3.5 lecture	14	3.6 seminar/laboratory	14
Time distribution:					hours
Studying textbooks, course materials, bibliography and notes					8
Further research in libraries, on electronic platforms and in the field					6
Preparing seminars/ laboratories, homework, research papers, portfolios and essays					6
Tutoring					-
Examinations					2
Other activities					-
3.7 Total hours of individual study	22				
3.8 Total hours per semester	50				
3.9 Number of credits	2				

4. Prerequisites (if applicable)

4.1 based on curriculum	-
4.2 based on competencies	-

5. Conditions (if applicable)

5.1 for the course	<ul style="list-style-type: none"> • computer / laptop for the teacher and students • internet access; access to the e-learning UVT platform; • video projector
5.2 for the seminar/laboratory	<ul style="list-style-type: none"> • computer / laptop for the teacher and students; • internet access; access to the e-learning UVT platform; • video projector

6. Objectives of the discipline - expected learning outcomes to the formation of which contribute to the completion and promotion of the discipline

Knowledge	<ul style="list-style-type: none"> • knowledge of ethical theories relevant to understanding how ethics is applied in research • identification and evaluation of key principles of ethical research • knowledge of the fundamental elements of academic writing • identification of potential ethical issues relating to your own research
Skills	<ul style="list-style-type: none"> • knowledge and implementation of codes of ethics and professional conduct and university integrity • identification of and solving potentially conflicting situations with ethical implications in the university environment • use of specific concepts, theories and methods to explain the phenomena associated with the concepts of ethics and academic integrity to a language specific to research ethics
Responsibility and autonomy	<ul style="list-style-type: none"> • applying efficient and responsible work strategies, based on the principles, norms and values of the code of professional ethics • compliance with ethical and deontological standards • demonstrating objectivity in reasoning and interventions, scientific rigor and scientific correctness • applying efficient work techniques in a multidisciplinary team, ethical attitude towards the group, respect for diversity and multiculturalism, acceptance of diversity of opinion

7. Content

7.1 Lecture	Teaching methods	Observations
<p>Course introduction - structure, syllabus.</p> <p>Introduction to Ethics in scientific research. Research ethics: why it matters. Necessity and reality. National and international concerns.</p> <ul style="list-style-type: none"> • Boyd, W.E., Healey, R.L., Hardwick; S.W., Haigh, M., Klein, P., Doran, B., Trafford, J., Bradbeer, J. 2008. None of Us Sets Out To Hurt People': The Ethical Geographer and Geography Curricula in Higher Education, Journal of Geography in Higher Education, Vol. 32, No. 1, 37-50. DOI: 10.1080/03098260701731462 • Griffith, D., (2008), Ethical Considerations in Geographic Research: What Especially Graduate Students Need to Know, Ethics Place and Environment 11(3):237-252, DOI: 10.1080/13668790802559650 • Online resources on WUT e-learning platform 	<p>Scientific lecture, dialogue, explanation, case studies</p>	<p>2 hours</p>
<p>Standards of integrity in teaching and research in higher education. Codes of ethics in universities. Professional codes of ethics</p> <ul style="list-style-type: none"> • Weinbaum, C., Landree, E., Blumenthal, M., Piquado, T., Gutierrez, C.I., (2019), Ethics in Scientific Research. An Examination of Ethical Principles and Emerging Topics, RAND Corporation, Santa Monica, ISBN: 978-1-9774-0269-1 • Legea educației naționale nr. 1/2011. http://www.dreptonline.ro/legislatie/legea_educatiei_nationale_lege_1_2011.php • Legea nr. 206/2004 privind buna conduită în cercetarea științifică, 		<p>2 hours</p>

<p>dezvoltarea tehnologică și inovare. https://lege5.ro/Gratuit/gu3donrv/legea-nr-206-2004-privind-buna-conduita-in-cercetarea-stiintifica-dezvoltarea-tehnologica-si-inovare</p> <ul style="list-style-type: none"> • Legea nr. 398/2006 pentru modificarea și completarea Legii nr. 206/2004 privind buna conduită în cercetarea științifică, dezvoltarea tehnologică și inovare. https://lege5.ro/Gratuit/geydamjrgq/legea-nr-398-2006-pentru-modificarea-si-completarea-legii-nr-206-2004-privind-buna-conduita-in-cercetarea-stiintifica-dezvoltarea-tehnologica-si-inovare • Legea nr. 319/2003 privind Statutul personalului de cercetare-dezvoltare. http://www.cdep.ro/pls/legis/legis_pck.htp_act_text?id=49472 • Ordinul nr. 211/2017 privind aprobarea Regulamentului de organizare și funcționare a Consiliului Național de Etică a Cercetării Științifice, Dezvoltării Tehnologice și Inovării, precum și a componenței nominale a acestuia. https://lege5.ro/Gratuit/ge2tqmrthe3a/ordinul-nr-211-2017-privind-aprobarea-regulamentului-de-organizare-si-functionare-al-consiliului-national-de-etica-a-cercetarii-stiintifice-dezvoltarii-tehnologice-si-inovarii-precum-si-a-componentei- • Ordinul nr. 6085/2016 privind constituirea Consiliului de etică și management universitar și aprobarea Regulamentului de organizare și funcționare a Consiliului de etică și management universitar. https://lege5.ro/Gratuit/geztqnzsguya/ordinul-nr-6085-2016-privind-constituirea-consiliului-de-etica-si-management-universitar-si-aprobarea-regulamentului-de-organizare-si-functionare-a-consiliului-de-etica-si-management-universitar • Online resources on WUT e-learning platform 		
<p>Elaboration of scientific materials (scientific papers, reports, essays). Ethical aspects specific to scientific research: from planning to communication of research</p> <ul style="list-style-type: none"> • Cargill, M., O'Connor, P. 2013. Writing Scientific Research Articles: Strategy and Steps, John Wiley & Sons, 240 pp. • Chelcea, S. 2003. Metodologia elaborării unei lucrări științifice, Edit. Comunicare, București, 287 pp. • Jordan, S.R. 2013. Conceptual Clarification and the Task of Improving Research on Academic Ethics, J Acad Ethics, 11:243-256. DOI 10.1007/s10805-013-9190-y • Online resources on WUT e-learning platform 		2 hours
<p>Elaboration of scientific materials: most frequently used methods in scientific research.</p> <ul style="list-style-type: none"> • Clifford, N., French, S., & Valentine, G. (Eds.) (2010). Key methods in Geography. (2nd ed.) Sage 		2 hours

<ul style="list-style-type: none"> • Online resources on WUT e-learning platform 		
<p>Teamwork: deontological aspects, results, dissemination, relativity/ambiguity</p> <ul style="list-style-type: none"> • Online resources on WUT e-learning platform 		2 hours
<p>Fraud in scientific research / science. Plagiarism and self-plagiarism: definition, forms</p> <ul style="list-style-type: none"> • Marsh, B. 2012. Plagiarism: Alchemy and Remedy in Higher Education, SUNY Press, 188 pp. • Wendy Sutherland-Smith, W. 2008. Plagiarism, the Internet, and Student Learning: Improving Academic Integrity, Routledge, 240 pp. • Whidby, M.A. 2012. Citation handling: processing citation texts in scientific documents, Thesis, ProQuest LLC, 64 pp. • Online resources on WUT e-learning platform 		2 hours
<p>Anti-plagiarism software: limitations, advantages</p> <ul style="list-style-type: none"> • Marsh, B. 2012. Plagiarism: Alchemy and Remedy in Higher Education, SUNY Press, 188 pp. • https://www.turnitin.com/ • https://www.grammarly.com/plagiarism-checker • Online resources on WUT e-learning platform 		2 hours
<p>References</p> <ul style="list-style-type: none"> • Boyd, W.E., Healey, R.L., Hardwick; S.W., Haigh, M., Klein, P., Doran, B., Trafford, J., Bradbeer, J. 2008. None of Us Sets Out To Hurt People': The Ethical Geographer and Geography Curricula in Higher Education, Journal of Geography in Higher Education, Vol. 32, No. 1, 37-50. DOI: 10.1080/03098260701731462 • Cargill, M., O'Connor, P. 2013. Writing Scientific Research Articles: Strategy and Steps, John Wiley & Sons, 240 pp. • Chelcea, S. 2003. Metodologia elaborării unei lucrări științifice, Edit. Comunicare, București, 287 pp. • Jordan, S.R. 2013. Conceptual Clarification and the Task of Improving Research on Academic Ethics, J Acad Ethics, 11:243-256. DOI 10.1007/s10805-013-9190-y • Clifford, N., French, S., & Valentine, G. (Eds.) (2010). Key methods in Geography. (2nd ed.) Sage • Griffith, D., (2008), Ethical Considerations in Geographic Research: What Especially Graduate Students Need to Know, Ethics Place and Environment 11(3):237-252, DOI: 10.1080/13668790802559650 • Marsh, B. 2012. Plagiarism: Alchemy and Remedy in Higher Education, SUNY Press, 188 pp. • Papadima, L. (coord.) 2017. Deontologie academică, Curriculum-cadru, Universitatea din București, 82 pp. • Șarpe, D., Popescu, D., Neagu, A., Ciucur, V. 2011. Standarde de integritate în învățământul universitar, Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării. • Șercan, E. 2017. Deontologie academică. Ghid practic, Editura Universității din București, 61 pp. • Weinbaum, C., Landree, E., Blumenthal, M., Piquado, T., Gutierrez, C.I., (2019), Ethics in Scientific Research. An Examination of Ethical Principles and Emerging Topics, RAND Corporation, Santa Monica, ISBN: 978-1-9774-0269-1 		

- Wendy Sutherland-Smith, W. 2008. Plagiarism, the Internet, and Student Learning: Improving Academic Integrity, Routledge, 240 pp.
- Whidby, M.A. 2012. Citation handling: processing citation texts in scientific documents, Thesis, ProQuest LLC, 64 pp.
- Course related materials, presentations and references posted on e-learning WUT platform (<https://elearning.e-uvt.ro/>)
- Legea educației naționale nr. 1/2011. http://www.dreptonline.ro/legislatie/legea_educatiei_nationale_lege_1_2011.php
- Legea nr. 206/2004 privind buna conduită în cercetarea științifică, dezvoltarea tehnologică și inovare. <https://lege5.ro/Gratuit/gu3donrv/legea-nr-206-2004-privind-buna-conduita-in-cercetarea-stiintifica-dezvoltarea-tehnologica-si-inovare>
- Legea nr. 398/2006 pentru modificarea și completarea Legii nr. 206/2004 privind buna conduită în cercetarea științifică, dezvoltarea tehnologică și inovare. <https://lege5.ro/Gratuit/geydamjrgq/legea-nr-398-2006-pentru-modificarea-si-completarea-legii-nr-206-2004-privind-buna-conduita-in-cercetarea-stiintifica-dezvoltarea-tehnologica-si-inovare>
- Legea nr. 319/2003 privind Statutul personalului de cercetare-dezvoltare. http://www.cdep.ro/pls/legis/legis_pck.htp_act_text?id=49472
- Ordinul nr. 211/2017 privind aprobarea Regulamentului de organizare și funcționare a Consiliului Național de Etică a Cercetării Științifice, Dezvoltării Tehnologice și Inovării, precum și a componentei nominale a acestuia. <https://lege5.ro/Gratuit/ge2tqmrthe3a/ordinul-nr-211-2017-privind-aprobarea-regulamentului-de-organizare-si-functionare-al-consiliului-national-de-etica-a-cercetarii-stiintifice-dezvoltarii-tehnologice-si-inovarii-precum-si-a-componentei->
- Ordinul nr. 6085/2016 privind constituirea Consiliului de etică și management universitar și aprobarea Regulamentului de organizare și funcționare a Consiliului de etică și management universitar. <https://lege5.ro/Gratuit/geztqzsguya/ordinul-nr-6085-2016-privind-constituirea-consiliului-de-etica-si-management-universitar-si-aprobarea-regulamentului-de-organizare-si-functionare-a-consiliului-de-etica-si-management-universitar>

7.2 Laboratory – practical activity	Teaching methods	Observations
Introduction to Ethics in scientific research. Research ethics: why it matters.	Case studies, debate, explanation.	2 hours
Morality, ethics, integrity and academic deontology. Corruption (bribery) in the university environment.		2 hours
Writing scientific materials: bachelor's, dissertation and doctorate theses, scientific articles, essays, reports. Rules.		2 hours
Writing scientific materials: bachelor's, dissertation and doctorate theses, scientific articles, essays, reports. Rules.		2 hours
Teamwork: documentation, results, dissemination.		2 hours
Plagiarism and self-plagiarism. How to use dedicated software to verify scientific papers?		2 hours
Presentations of reports/essays/ papers		2 hours

References

- Clifford, N., French, S., & Valentine, G. (Eds.) (2010). Key methods in Geography. (2nd ed.) Sage
- Griffith, D., (2008), Ethical Considerations in Geographic Research: What Especially Graduate

Students Need to Know, Ethics Place and Environment 11(3):237-252, DOI: 10.1080/13668790802559650

- Jordan, S.R. 2013. Conceptual Clarification and the Task of Improving Research on Academic Ethics, J Acad Ethics, 11:243-256. DOI 10.1007/s10805-013-9190-y
- Marsh, B. 2012. Plagiarism: Alchemy and Remedy in Higher Education, SUNY Press, 188 pp.
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- Șarpe, D., Popescu, D., Neagu, A., Ciucur, V. 2011. Standarde de integritate în învățământul universitar, Unitatea Executivă pentru Finanțarea Învățământului Superior, a Cercetării, Dezvoltării și Inovării.
- Șercan, E. 2017. Deontologie academică. Ghid practic, Editura Universității din București, 61 pp.
- Weinbaum, C., Landree, E., Blumenthal, M., Piquado, T., Gutierrez, C.I., (2019), Ethics in Scientific Research. An Examination of Ethical Principles and Emerging Topics, RAND Corporation, Santa Monica, ISBN: 978-1-9774-0269-1
- Practical activity materials, presentations and references posted on e-learning WUT platform (<https://elearning.e-uvt.ro/>)

8. Corroborating course content with the expectations held by the representatives of the epistemic community, professional associations and typical employers in the field of the study programme

The content of the course was developed in accordance with the curriculum and meets the didactic and scientific requirements corresponding to similar specializations in other university centers. Course content will offer the students the necessary rules and regulations of ethical conduct in all university activities and human relations.

9. Assessment

Type of activity	9.1 Assessment criteria	9.2 Assessment methods	9.3 Weight in the final mark
9.4 Course	Understanding and assimilating theoretical knowledge	Written exam – multiple choice test	30 %
9.5 Laboratory-practical activity	Research project	Assessment of the written report	40 %
	Quality of the content and presentation	Assessment of the project presentation	30 %
9.6 Minimum performance standard			
<ul style="list-style-type: none"> • Minimum mark 5 at course evaluation. • Minimum mark 5 at the research project. • Minimum mark 5 at the oral presentation 			

Date
09.09.2024

Course convenor's signature
Lect. dr. Andrei Dornik

Date of approval in the department

Head of department's signature
Lect. Dr. Ioan Sebastian Jucu