



COURSE DESCRIPTION

1. Programme Identification Data

1.1 Higher Education Institution	„ALEXANDRU IOAN CUZA” UNIVERSITY OF IAȘI
1.2 Faculty	FACULTY OF CHEMISTRY
1.3 Department / Doctoral School	DOCTORAL SCHOOL OF CHEMISTRY
1.4 Field of Study	CHEMISTRY
1.5 Cycle of Studies	DOCTORATE
1.6 Study Programme / Qualification	ADVANCED UNIVERSITY STUDIES – DOCTORAL SCHOOL OF CHEMISTRY / PhD IN CHEMISTRY

2. Course Identification Data

2.1 Course Title	ACADEMIC WRITING AND DISSEMINATION OF RESEARCH RESULTS – MODULE I						
2.2 Course coordinator (lectures)	Prof. univ. dr. habil. Cecilia ARSENE Prof. univ. dr. habil. Lucian Mihail BÎRSĂ Prof. univ. dr. Ionel MANGALAGIU Prof. univ. dr. Aurel PUI						
2.3 Seminar coordinator	Prof. univ. dr. habil. Lucian Mihail BÎRSĂ Prof. univ. dr. habil. Gheorghită ZBANCIOC						
2.4 Year of study	I	2.5 Semester	1	2.6 Type of assessment	*C	2.7 Disciple regime	**OC

*[E – exam / C – colloquium] **[CC = Compulsory Course / OC = Optional Course]

3. Estimated Total Workload (hours per semester)

3.1 Hours per week	2.25	3.2 Lectures	1.25	3.3 Seminars	1
3.4 Total hours according to the curriculum	31.5	3.5 Lectures	17.5	3.6 Seminars	14
Time allocation	hours				
Study based on textbooks, course materials, bibliographic sources, and other relevant resources	10				
Additional research in the library, on specialized electronic platforms, and in the field	15				
Preparation for seminars, assignments, papers, portfolios, essays	10				
Academic tutoring	4,5				
Assessment activities	4				
Other activities	-				
3.7 Total hours of individual study	43.5				
3.8 Total hours per semester	75				
3.9 Number of credits	3				

4. Prerequisites (if applicable)

4.1 Curriculum prerequisites	Completion of a Master's degree (or equivalent) and enrolment in the doctoral study programme in Chemistry, according to the regulations of the Doctoral School.
4.2 Competences prerequisites	Basic competencies in the use of scientific language and in the analysis and interpretation of information, as well as digital competencies related to the use of personal computers and standard software applications (e.g., Microsoft Office: Word, PowerPoint).

5. Conditions (if applicable)

5.1 Conditions for lectures	Appropriate facilities for the conduct of doctoral teaching activities, equipped with a video projector and a PC, with access to the internet, the institutional IT infrastructure, and specialized
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	resources (scientific databases relevant to the field of Chemistry). Activities are conducted in compliance with institutional regulations governing the organization of doctoral studies.
5.2 Conditions for seminars	Appropriate facilities for the conduct of doctoral teaching activities, equipped with a video projector and a PC, with access to the internet, the institutional IT infrastructure, and specialized resources (scientific databases relevant to the field of Chemistry). Activities are conducted in compliance with institutional regulations governing the organization of doctoral studies.

6. Specific competences accumulated

Professional competences	<ul style="list-style-type: none"> • Correct and coherent application of academic writing principles in the preparation of scientific texts in the field of chemistry, in accordance with established academic structures and conventions. • Logical and argumentative organization of scientific texts through clear structuring of ideas, formulation of objectives, and coherent presentation of research results. • Appropriate use of bibliographic sources through accurate citation, referencing in accordance with international standards, and responsible integration of specialized literature.
Transversal competences	<ul style="list-style-type: none"> • Development of written scientific communication skills appropriate to academic and research contexts at national and international levels. • Assumption of academic responsibility for scientific writing, in compliance with principles of research ethics and academic integrity. • Capacity for self-assessment and continuous improvement of scientific texts based on academic quality criteria and received feedback.

7. Course Objectives (derived from the acquired competences)

7.1. General objective	The course aims to develop fundamental academic writing competencies required for the preparation of scientific texts and doctoral papers in the field of chemistry, in accordance with academic and ethical standards.
7.2. Specific objectives	<p>Upon completion of the course, the doctoral student will be able to:</p> <ul style="list-style-type: none"> • apply basic principles of academic writing in the preparation of scientific texts; • structure scientific texts coherently, adapting content organization to different types of academic works (articles, reports, thesis chapters); • use bibliographic sources accurately, in compliance with citation and referencing standards; • identify and avoid unethical practices in academic writing, including plagiarism, self-plagiarism, and improper citation; • improve scientific texts through revision, correction, and integration of received feedback.

8. Content

8.1	Lecture Topics	Teaching methods*	Notes (hours / references)
1.	Publication and communication. Literature. Journals. Dates for publication.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
2.	Reviewers of articles/publications. The Journal Editor.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])

3.	False conclusions/remarks. Use of mathematical models. Data Removal	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(2 hours, [1÷6])
4.	Inadequate motivation of databases. Misleading data viewing.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1.5 hours, [1÷6])
5.	Collecting research data from academic writings	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(2 hours, [1÷6])
6.	Data reporting and intellectual property.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
7.	Evaluation of research results and conduct and deviations in an academic unit.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
8.	Misrepresentation of identity documents. Relations in an academic unit. Title and doctoral degree. Research Fellowship	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
9.	The PhD. The impact of the teacher. Professionalism and moral values.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
10.	Ethics in academic writing and moral values.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
11.	Academic Freedom, Ethical Standards, and Academic Writing	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])
12.	Ethics in the University, Ethics and Academic Research and Writing	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1÷6])

13.	Enforcement of codes of ethics. Conflict of interest. Data manipulation. The white lie. Reporting of research results.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(2 hours, [1+6])
14.	Implementation of a code of ethics and academic writing. Punishment for misconduct. The success of the Code.	Interactive lecture, explanation, conversation and academic debate, critical analysis of contents and problematization of situations specific to academic research and writing	(1 hour, [1+6])

*In cases of force majeure, teaching activities may be conducted online, in accordance with current legislation.

Bibliography

1. Hinz, G. Research Ethics and Ethical Behavior in Research. In: Abu-Shaheen, A.K., Hamza, M.A., Marar, S. (eds.), Introduction to Research Ethics and Academic Integrity. Springer, **2025**.
2. Iphofen, R. (Ed.) Handbook of Research Ethics and Scientific Integrity. Springer Nature, **2020**.
3. Speight, J. G. Ethics in the University. Scrivener Publishing, Wiley, **2016**.
4. Blackburn, S. Ethics: A Very Short Introduction. Oxford University Press, **2009**.
5. Otteson, J. R. Actual Ethics. Cambridge University Press, **2006**.
6. Schultz, R. A. Contemporary Issues in Ethics and Information Technology. IRM Press, **2005**.

8.2	Seminar Topics	Teaching methods*	Notes (hours / references)
1.	Publication and communication of scientific research results	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
2.	Data Manipulation	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
3.	Integrity in research and academic writing	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
4.	Professionalism, ethics and academic writing	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
5.	Academic Integrity and Academic Writing	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
6.	Codes of ethics and academic writing	Academic debate and conversation, critical analysis of case studies, problematization of situations specific to academic writing and research ethics, applied exercises	(2 hours, [1+6])
7	Applying codes of ethics and academic writing	Academic debate and conversation, critical analysis of	(2 hours, [1+6])

		case studies, problematization of situations specific to academic writing and research ethics, applied exercises	
*In cases of force majeure, seminar activities may be conducted online, in accordance with current legislation.			
Bibliography			
1. HİNİZ, G. Research Ethics and Ethical Behavior in Research. In: Abu-Shaheen, A.K., Hamza, M.A., Marar, S. (eds.), Introduction to Research Ethics and Academic Integrity. Springer, 2025 .			
2. Iphofen, R. (Ed.) Handbook of Research Ethics and Scientific Integrity. Springer Nature, 2020 .			
3. Speight, J. G. Ethics in the University. Scrivener Publishing, Wiley, 2016 .			
4. Blackburn, S. Ethics: A Very Short Introduction. Oxford University Press, 2009 .			
5. Otteson, J. R. Actual Ethics. Cambridge University Press, 2006 .			
6. Schultz, R. A. Contemporary Issues in Ethics and Information Technology. IRM Press, 2005 .			

9. Learning Outcomes

Knowledge and understanding	<ul style="list-style-type: none"> Understanding of the fundamental principles of academic writing and their role in the dissemination of scientific research results. Knowledge of the scientific publication process, including the roles of journals, editors, and reviewers. Knowledge of ethical standards and academic integrity norms applicable to scientific writing and communication. Awareness of major deviations from good academic practice in writing and research.
Application and analysis	<ul style="list-style-type: none"> Correct structuring of scientific texts (articles, reports, thesis chapters) in accordance with academic conventions. Application of citation and referencing rules in the use of bibliographic sources. Analysis of scientific articles with regard to clarity of writing, ethical compliance, and data reporting. Identification and correction, under guidance, of errors in the interpretation, presentation, or reporting of research results.
Critical Assessment and Accountability	<ul style="list-style-type: none"> Assessment of ethical risks associated with academic writing, including plagiarism, improper citation, and unjustified interpretations. Argumentation of the importance of academic integrity in the research and publication process. Assumption of professional responsibility for the drafting and authorship of scientific texts. Integration of feedback into the process of improving academic writing.
Academic Communication	<ul style="list-style-type: none"> Coherent and scientifically appropriate written communication of research ideas and results. Adaptation of academic language to the specificity of the field of chemistry and to the target audience. Participation in reasoned academic discussions and debates on issues related to writing and research ethics.

10. Correlation of the course content with the expectations of community representatives, professional associations, and representative employers in the field related to the program.

The content of the course *Academic writing and dissemination of research results – Module I* is aligned with the expectations of the academic and research community, professional associations, and representative employers in the field of Chemistry by developing competencies required for the writing and dissemination of scientific research results in accordance with international academic and editorial standards. Upon completion of the course, doctoral students acquire the knowledge and competencies necessary for the preparation of high-quality scientific manuscripts, as well as the ability to identify, prevent, and manage ethical and academic integrity issues arising in the research and publication process, in line with contemporary academic and professional requirements..

11. Assessment

Activity	11.1 Assessment criteria	11.2 Assessment methods	11.3 Weight in final grade (%)
11.4 Course	Ability to understand and apply the principles of academic writing; the	Colloquium: oral presentation and reasoned	70

	correct structuring of a scientific manuscript; appropriate use of scientific language.	discussion on the elaboration of a scientific manuscript	
11.5 Seminar	Ability to critically analyze issues of ethics and integrity in research; identifying and evaluating situations of deviation from academic good conduct.	Case study analysis / thematic presentation on research integrity.	30
11.6 Minimum Performance Standard			
<p>In order to pass the discipline, the doctoral student must demonstrate:</p> <ul style="list-style-type: none"> • the ability to identify and describe the main components of a scientific work and their role in communicating research results; • knowledge of the stages of scientific manuscript development, from conception to submission for evaluation; • the ability to recognize and prevent ethical and academic integrity issues in scientific writing and publishing; • application of principles of good research conduct in accordance with academic and editorial standards. 			

Date of completion
26.09.2025

Course coordinator

Prof. univ. dr. habil. Cecilia ARSENE

Prof. univ. dr. habil. Lucian Mihail BÎRSĂ

Prof. univ. dr. Ionel MANGALAGIU

Prof. univ. dr. habil. Romeo-Iulian OLARIU

Prof. univ. dr. Aurel PUJ

Seminar coordinator

Prof. univ. dr. habil. Lucian Mihail BÎRSĂ

Prof. univ. dr. habil. Gheorghită ZBANCIOC

Date of approval
29.09.2025

Director of the Doctoral School of Chemistry
Prof. univ. dr. habil. Cecilia ARSENE