

**COURSE DESCRIPTION****1. Program data**

1.1 Higher education institution	"ALEXANDRU IOAN CUZA" UNIVERSITY OF IASI
1.2 Faculty	CHEMISTRY
1.3 Department	DOCTORAL SCHOOL OF CHEMISTRY
1.4 Field of study	CHEMISTRY
1.5 Cycle of studies	DOCTORATE
1.6 Study Programme/Qualification	DOCTOR OF CHEMISTRY

**2. Discipline data**

2.1 Name of the discipline	ACADEMIC WRITING AND DISSEMINATION OF RESEARCH RESULTS – MODULE II						
2.2 Course Activity Holder	Prof. univ. dr. habil. Cecilia ARSENE Prof. univ. dr. habil. Lucian Mihail BIRSA Prof. univ. dr. Ionel MANGALAGIU Prof. univ. dr. habil. Romeo-Iulian OLARIU Prof. univ. dr. Aurel PUI						
2.3 Owner of seminar activities	Prof. univ. dr. asoc. Elena BÎCU Prof. univ. dr. asoc. Gabi DROCHIOIU Prof. univ. dr. Aurel PUI						
2.4 Year of study	I	2.5 Semester	1	2.6 Type of evaluation	C	2.7 Discipline regime	OP

\* OB – Mandatory / OP – Optional

**3. Total estimated time (hours per semester and teaching activities)**

3.1 Number of hours per week	2.25	of which: 3.2 course	1.25	3.3. Seminar	1
3.4 Total hours in the curriculum	31.5	of which: 3.5. course	17.5	3.6. Seminar	14
Distribution of the time fund					hours
Study by textbook, course material, bibliography and others					10
Additional documentation in the library, on specialized electronic platforms and in the field					15
Preparation of seminars/laboratories, assignments, papers, portfolios and essays					10
Tutoring					4,5
Examination					4
Other activities					-
3.7 Total individual study hours					43.5
3.8 Total hours per semester					75
3.9 Number of credits					3

**4. Preconditions (if applicable)**

4.1 Curriculum	
4.2 Competences	

**5. Conditions (if applicable)**

5.1 Course Conduct	
5.2 Conduct of the laboratory	

## 6. Specific competences accumulated

<b>Professional skills</b>	<p>Critical-constructive evaluation of projects and results of scientific research, assessment of the state of theoretical and methodological knowledge; identifying the priorities of knowledge and application to the field;</p> <p>Selection and application of principles, theories and advanced methods of knowledge, transfer of methods from one field to another, interdisciplinary approaches to solve theoretical and practical problems, new and complex;</p> <p>Use of advanced principles and methods for explaining and interpreting, from multiple perspectives, new and complex theoretical and practical situations/problems, specific to the field;</p> <p>Systematic, advanced knowledge of concepts, research methods, controversies and new hypotheses specific to the field; communication with specialists in related fields.</p>
<b>Transversal competence</b>	<p>Development of projects centered on creativity, as a basis for self-realization;</p> <p>Assuming responsibility and capacity to organize and manage the activity of professional groups, scientific research or organizations/institutions;</p> <p>Initiation and innovative development of complex theoretical and practical projects.</p>

## 7. Objectives of the discipline (from the grid of specific competences accumulated)

<b>7.1. General objective</b>	<p>The course aims to help students from the doctoral school to easily identify the main parts of a scientific paper, elaborated according to the value of experimental data, and their role in an article. The course will present the main stages in the elaboration of a manuscript and its journey from submission for publication to publication in the selected journal. In addition, the course aims to raise awareness among doctoral students about the increasing frequency of unethical practices in the field of education and research.</p>
<b>7.2. Specific objectives</b>	<p>Upon successful completion of this discipline, students will be acquainted:</p> <ul style="list-style-type: none"> <li>▪ what are the main components of a scientific paper and what is their role;</li> <li>▪ what are the stages of developing a scientific manuscript;</li> <li>▪ what are the stages of publication of a scientific manuscript;</li> <li>▪ what are the main activities of good practices in the elaboration of a scientific manuscript;</li> <li>▪ what are the main unethical practices in the field of education and research.</li> </ul>

## 8. Content

8.1	Course	Teaching methods	Observations (hours and bibliographic references)
1.	Publication and communication. Literature. Diaries. Data for publication.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
2.	Evaluators of articles/publications. Journal Editor.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
3.	False conclusions/remarks. Use of mathematical models. Data removal	Lecture, explanation, conversation, description, problematization	(2 hours, [1,4])
4.	Inadequate motivation of databases. Misleading data visualization.	lecture, explanation, conversation, description, Problematization	(1,5 hours, [1,4])
5.	Collection of research data from academic writings	Lecture, explanation, conversation, description, problematization	(2 hours, [1,4])

6.	Data reporting and intellectual property.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
7.	Evaluation of research results and conduct and deviations in an academic unit.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
8.	Misrepresentation of identity documents. Relationships in an academic unit. Title and degree of doctorate. Research Scholarship	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
9.	Phd. The impact of the teacher. Professionalism and moral values.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
10.	Ethics in Academic Writing and Moral Values.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
11.	Academic Freedom, Ethical Standards, and Academic Writing	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
12.	Ethics in the University, Ethics and Academic Research and Writing	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])
13.	Enforcement of codes of ethics. Conflict of interest. Data manipulation. The white lie. Reporting of research results.	Lecture, explanation, conversation, description, problematization	(2 hours, [1,4])
14.	Implementation of a code of ethics and academic writing. Punishment for misconduct. The success of the Code.	Lecture, explanation, conversation, description, problematization	(1 hour, [1,4])

#### **Bibliography**

1. James G. Speight, Ethics in the University, Scrivener Publishing, Wiley, 2016.
2. Simon Blackburn, Ethics: A Very Short Introduction, Oxford University Press, USA, 2009.
3. James R. Otteson, Actual Ethics, Cambridge University Press, 2006.
4. Robert A. Schultz, Contemporary Issues in Ethics and Information TechnologyIRM Press, 2005.

<b>8.2</b>	<b>Seminar</b>	<b>Teaching methods</b>	<b>Observations</b> (hours and bibliographic references)
1.	Publication and communication	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
2.	Data manipulation	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
3.	Integrity in Research and Academic Writing	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
4.	Professionalism, ethics and academic writing	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
5.	Integrity in academia and academic writing	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
6.	Codes of Ethics and Academic Writing	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])
7	Application of codes of ethics and academic writing	The lecture, the explanation, the conversation Description, Problematization	(2 hours, [1,4])

#### **Bibliography**

1. James G. Speight, Ethics in the University, Scrivener Publishing, Wiley, 2016.
2. Simon Blackburn, Ethics: A Very Short Introduction, Oxford University Press, USA, 2009.

3. James R. Otteson, Actual Ethics, Cambridge University Press, 2006.
4. Robert A. Schultz, Contemporary Issues in Ethics and Information Technology IIR Press, 2005.

**9. Corroborating the content of the discipline with the expectations of the representatives of the community, professional associations and representative employers in the field related to the program**

After going through and promoting the discipline, the student will have the necessary knowledge to be able to elaborate a scientific manuscript and will know what he must do to avoid the appearance of a problem of ethics and integrity in research at the time of writing a scientific manuscript.

**10. Evaluation**

Activity Type	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Weight in final grade (%)
10.4 Course	Correctness of answers – understanding and correct application of the issues dealt with in the course.	Colloquium – Lecture on the elaboration of a scientific manuscript.	70
10.5 Seminar	Correctness of answers – the correct acquisition and understanding of the issues dealt with at the seminar.	Lecture on integrity in research.	30
<b>10.6 Minimum Performance Standard</b>			
<ul style="list-style-type: none"> <li>▪ Identification of the main components of a scientific work and what their role is;</li> <li>▪ Knowledge of the stages of elaboration of a scientific manuscript;</li> <li>▪ Knowledge of the ways to avoid the occurrence of a problem of ethics and integrity in research.</li> </ul>			

Date of completion  
28.09.2022

Course holder  
Prof. univ. dr. habil. Cecilia ARSENE

Seminar Holder  
Prof. univ. dr. asoc. Elena BÎCU  
Prof. univ. dr. asoc. Gabi DROCHIOIU

Prof. univ. dr. habil. Lucian Mihail BIRSA

Prof. univ. dr. Ionel MANGALAGIU

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

Prof. univ. dr. Aurel PUI

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Date of approval

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