

SYLLABUS

1. Information regarding the programme

1.1 Higher education institution	Babeş-Bolyai University
1.2 Faculty	Physics
1.3 Department	Solid State Physics
1.4 Field of study	Physics
1.5 Study cycle	Master
1.6 Study programme / Qualification	Master Biofizică și Fizică Medicală, Fizica Computațională, Fizica Corpului Solid (BFM, FC, FCS)

2. Information regarding the discipline

2.1 Name of the discipline	Academic writing methodology. Ethics and academic integrity.						
2.2 Course coordinator	dr. Mihaela ALUAS						
2.3 Seminar coordinator	dr. Mihaela ALUAS						
2.4. Year of study	1	2.5 Semester	1	2.6. Type of evaluation	C	2.7 Type of discipline	DC

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

3.1 Hours per week	3	Of which: 3.2 course	2	3.3 seminar	1
3.4 Total hours in the curriculum	42	Of which: 3.5 course	28	3.6 seminar	14
Time allotment:					hours
Learning using manual, course support, bibliography, course notes					20
Additional documentation (in libraries, on electronic platforms, field documentation)					20
Preparation for seminars/labs, homework, papers, portfolios and essays					25
Tutorship					5
Evaluations					10
Other activities:					-
3.7 Total individual study hours	80				
3.8 Total hours per semester	122				
3.9 Number of ECTS credits	3				

4. Prerequisites (if necessary)

4.1. curriculum	<ul style="list-style-type: none"> Courses of one of the faculties of Natural Sciences (Physics, Chemistry, Biology, Environmental Science and Engineering) or Medicine.
4.2. competencies	<ul style="list-style-type: none"> Medium-level English language skills, Elaboration and defence of the bachelor's thesis.

5. Conditions (if necessary)

5.1. for the course	<ul style="list-style-type: none"> Round table room, computers, internet access, projector
5.2. for the seminar activities	<ul style="list-style-type: none"> Round table room, computers, internet access, A4 (black and white) and A3 (full color) and adapted space for conferences

simulations.

6. Specific competencies acquired

Professional competencies	<p>C1. Developing the ability to understand an advanced interdisciplinary scientific text (ISI rated articles) on a given research theme. Structuring scientific results according to context.</p> <p>C2. Developing the capacity to select and structure the personal scientific results.</p> <p>C3. Developing the ability to communicate scientific results in accordance with the researcher's code of ethics and the requirements of academic integrity.</p> <p>C4. Developing the capacity to select the most advantageous scientific events according to the various professional stages that can be achieved in the research career.</p> <p>C5. Developing the ability to develop an abstract based on specific requirements.</p> <p>C6. Developing the critical evaluation capacity of peer review and analysis of plagiarism elements.</p>
Transversal competencies	<p>CT1. Performing professional tasks efficiently and responsibly with compliance with the legislation, and the specific field deontology under qualified assistance. Applying the values and ethics of the profession of researcher and responsible execution of professional tasks in terms of autonomy and decision-making based on evaluation and self-evaluation.</p> <p>CT2. Application of efficient interdisciplinary teamwork techniques and recognition of hierarchical levels. Awareness of personal value and assertion within the team based on professional skills.</p> <p>CT3. Objective self-evaluation, awareness of the strong and weak personal points and their adaptation for the purpose of insertion into the labor market. Effective use of information resources and communication resources and assisted training, both in Romanian and in an international language.</p>

7. Objectives of the discipline (outcome of the acquired competencies)

7.1 General objective of the discipline	<ul style="list-style-type: none"> • Providing the fundamentals of a modern approach to the dissemination and exploitation of research results in an interdisciplinary and analytical context according to the researcher's code of ethics. • Acquisition of new interdisciplinary knowledge needed to communicate and capitalize on research results.
7.2 Specific objective of the discipline	<ul style="list-style-type: none"> • Transfer of knowledge and understanding of methods of communication, publication and / or capitalization of research results. • Developing the necessary horizontal skills for the correct, efficient and effective communication, publication and / or capitalization of the research results. • Understanding principles, rules and processes in the field of ethics and integrity of scientific work.

8. Content

8.1 Course	Teaching methods	Remarks
1. Introduction in the Academic writing methodology. Ethics and academic integrity. Needs analysis. Analysis of language skills for English (lingua franca in science). The role of English in science. Selection of assigned research themes. Communication and set of	lecture, round table discussions.	2 hours

deliverables.		
2. Academic Integrity and Ethics in Research. Code of ethics in research. Code of Ethics in the Researcher-Supervisor Relationship. Health and safety. Protection of personal and confidential data. Ethics committees. The abstract.	lecture, round table discussions.	2 hours
3. The poster. Applications.	lecture, round table discussions.	2 hours
4. Feedback on the abstract.Simulation of a scientific conference (poster section). Individual presentations. Critical analysis.	lecture, round table discussions.	2 hours
5. Individual oral presentation of assigned research topic. Critical analysis exercises without correspondence in the evaluation sheet.	lecture, the video projector will be used	2 hours
6. Individual oral presentation of assigned research topic. Critical analysis exercises without correspondence in the evaluation sheet.	lecture, the video projector will be used	2 hours
7. Structure in Academic Writing. Achieving the academic writing perspective in English. Argumentation in academic writing.	Lecture, blackboard, media	2 hours
8. Ethics in research. Academic integrity: Fundamental principles. Plagiarism and copyright. Citation, paraphrasing, summarizing and referencing the bibliography.	Lecture, blackboard, media	2 hours
9. Evaluation in academic texts. Evaluation sheets adapted for abstract and oral presentations. Methodology of research and choice of personal research theme. Online tools to identify plagiarism and auto-plagiarism.	Lecture, blackboard,video-projector; role play, examples of situations; involvement of the students on formulating and expressing scientific opinions	2 hours
10. Scientific databases (Web of Science, Scopus). Scientific journals. The Hirsh Index. Elaboration of an abstract on the research topic and selecting the conference.	Lecture, blackboard,video-projector; computer pool.	2 hours
11. Feedback on the abstract and conference selection. Elaboration of a research poster.	lecture, role play, examples of situations	2 hours
12. Simulation of the second scientific conference (poster section). Exercises for summarizing (lecturer) and for attention (audience). Critical group analysis.	Lecture, blackboard,video-projector; role play, examples of situations; involvement of the students on formulating and expressing scientific opinions	2 hours
13. Individual oral presentations. Integrated peer review principles and exercises.	Lecture,video-projector; examples of situations; involvement of the students on formulating and expressing scientific opinions	2 hours
14. Individual oral presentations. Integrated peer review principles and exercises.	Lecture, blackboard,video-projector; examples of situations; involvement of the students on formulating and expressing scientific opinions	2 hours
Bibliography <ol style="list-style-type: none"> 1. Mihaela Aluas et al, Scrierea Academica. Cercetare si Autoperfectionare, Ed. Casa Cartii de Stiinta, p.151, ISBN 978-606-17-0625-9, 2014 2. S Pavlenko, C Bojan, A Kelemen, M Aluas, Academic Writing: Global Views and Romanian Trends, TRANSYLVANIAN REVIEW 23, 259-270, (2014) 3. Moraru, C., Lung, R.I., Balazsi, R., Both, I., Aluas, M., Needs analysis as an Instrument to Design and Adapt Specific Academic Writing Interventions. Cognition, Brain, Behaviour. An Interdisciplinary Journal, Volume XVIII, No. 4 (December), 261-281, (2014). 		

4. Cramarencu, R., Moraru, C., Balazsi, R., & **Aluas, M.** Meta-Analysis Versus Systematic Review in Studies Regarding Specific Interventions in Academic Writing in English. *Cognition, Brain, Behaviour.*, XIX(1), 55–73, (2015).
5. **M. Aluas**, C. Moraru, M. Reindhorf, B. Huemer, C. Filip, A. Kelemen, and R. Lung, Results and discussion over an innovative approach of delivering Academic Writing courses, *Current Science* 112(10), pp. 1997-2007, (2017).
6. **Mihaela Aluas**, Simion Simon (editori), *Metode experimentale avansate pentru studiul si analiza bio-nano-sistemelor*, Ed. Casa Cartii de Stiinta, ISBN 978-606-17-0115-5, p.517, 2012.
7. Pecorari, Diane (2010): *Academic Writing and Plagiarism*
8. Murray, Rowena (2005) Open University Press, 2005. 223 + xiii pp. ISBN 0 335 21392 8: *Writing for academic journals*
9. S. Canagarajah, Pittsburgh: University of Pittsburgh Press, 332pp., ISBN 0-8229-5994-9: *A Geopolitics of Academic Writing*, 2002
10. A. Suresh Canagarajah, University of Michigan Press, Ann Arbor, 2002, ISBN 0-472-08853-X, paperback, p. 279 : *Critical academic writing and multilingual students*
11. Patricia Goodson, SAGE, ISBN 978-1-4522-0386-7, p.225, *Becoming an Academic Writer*, 2013.
12. Lillis, Theresa and Curry, Mary Jane (2010). *Academic Writing in a Global Context: The politics and practices of publishing in English*. Abingdon: Routledge.

8.2 Seminar	Teaching methods	Remarks
1. Needs analysis assessment and English language test on random topic (GRE type)	examples of situations; involvement of the students on formulating and expressing scientific opinions	1 hour
2. Needs analysis feedback.Presentation of different types of conferences. Analyzing and selecting them according to career status and professional interests, observing the principles of academic integrity.	examples of situations; involvement of the students on formulating and expressing scientific opinions	1 hour
3. Individual exercises (ABSTRACT) under qualified supervision.	examples of situations; involvement of the students on formulating and expressing scientific opinions, round table, computers.	1 hour
4. Individual exercises (POSTER) under qualified supervision.	examples of situations; involvement of the students on formulating and expressing scientific opinions, round table, computers.	1 hour
5. Individual exercises (ORAL PRESENTATION) under qualified supervision.	video-projector; involvement of the students on formulating and expressing scientific opinions	1 hour
6. Individual exercises (ORAL PRESENTATION) under qualified supervision.	video-projector; involvement of the students on formulating and expressing scientific opinions	1 hour
7. Focus groups on plagiarism. Exemples.	involvement of the students on formulating and expressing scientific opinions, round table, focus groups	1 hour
8. Focus groups on bibliographic references. Exemples.	involvement of the students on formulating and expressing scientific opinions, round table, focus groups	1 hour
9. Peer review evaluations.	involvement of the students on formulating and expressing scientific opinions, round table	1 hour
10. Individual exercises (scientific databases) under	round table, computers.	1 hour

qualified supervision.		
11. Individual exercises (ABSTRACT/POSTER) under qualified supervision. Autoevaluation on plagiarism.	involvement of the students on formulating and expressing scientific opinions, round table, computers.	1 hour
12. Individual exercises (POSTER) under qualified supervision. Autoevaluation on plagiarism.	involvement of the students on formulating and expressing scientific opinions, round table, computers..	1 hour
13. Individual exercises (ORAL PRESENTATION) under qualified supervision. Autoevaluation on plagiarism.	video-projector; involvement of the students on formulating and expressing scientific opinions, computer	1 hour
14. Individual exercises (ORAL PRESENTATION) under qualified supervision. Autoevaluation on plagiarism.	video-projector; involvement of the students on formulating and expressing scientific opinions, computer	1 hour

Bibliography

- Books of Abstracts from EATAW, EUROMAR, Advanced Spectroscopies on Biomedical and Nanostructured Systems, Alpine Conference on Solid State NMR, CLINAM.
- Research Reports from Open School for Academic Self-improvement. Research, Academic Writing and Career Management (PN-IIPT-PCCA-2011-3.1-0682) project implemented at Babes-Bolyai University from 2012 to 2016 by a multidisciplinary team.

Resources:

- Scientific databases.
- Online tools for plagiarism identification.

9. Corroborating the content of the discipline with the expectations of the epistemic community, professional associations and representative employers within the field of the program

The content of the subject is consistent with courses with similar content in other university and foreign centers and with the current ethical and deontological criteria of the research profession. To ensure consistency with the requirements imposed by the local and international labor market, the course, through the round table and peer review format contributes to developing personal skills such as abstractization, communication, assessment and adaptation for different professional backgrounds (university, research institute, private company).

10. Evaluation

Type of activity	10.1 Evaluation criteria	10.2 Evaluation methods	10.3 Share in the grade (%)
10.4 Course	3 deliverables on an assigned research topic.	Continuous oral examination focused on tasks achievement.	60%
	3 deliverables on the personal research topic.	Final oral examination focused on individual progress.	30 %
10.5 Seminar activities	Tasks achieved	Round tables contribution	10%
10.6 Minimum performance standards			
➤ 3 deliverables on an assigned research topic			

Date

Signature of course coordinator

Signature of seminar coordinator

dr. Mihaela ALUAS

dr. Mihaela ALUAS

Date of approval

Signature of the head of department

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Prof. Dr. Romulus TETEAN