COURSE DESCRIPTION

Academic ethics and integrity

Academic year 2026-2027

1. Programme-related data

1.1. Higher Education Institution	**Babeş-Bolyai University of Cluj-Napoca**
1.2. Faculty	**Faculty of Mathematics and Computer Science**
1.3. Doctoral Shool	**Doctoral School in Mathematics and Computer Science**
1.4. Field of study	**Computer Science**
1.5. Level of study	**Doctoral studies**

2. Course-related data

2.1. Course title	**Academic ethics and integrity**			Course code	**MDE8168**
2.2. Course coordinator	**Prof.dr. Simona Motogna**				
2.3. Seminar coordinator	**Prof.dr. Simona Motogna**				
2.4. Year of study	1	2.5. Semester	1	2.6. Type of assessment	Exam
2.7. Course status	Compulsory			2.8. Course type	Complementary subject

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

3.1. Number of hours per week	**3**	of which: 3.2. course	**2**	3.3. seminar/ laboratory/ project	**1**
3.4. Total of hours in the curriculum	36	of which: 3.5. course	24	3.6. seminar/ laboratory	**12**
Time allocation for individual study (IS) and self-taught activities (ST)					**hours**
Learning from textbooks, course materials, bibliography, and notes (IS)					61
Additional research in the library, on subject-specific electronic platforms, and on-site					67
Preparing seminars/ laboratories/ projects, assignments, reports, portfolios, and essays					55
Tutoring (professional guidance)					21
Examinations					10
Other activities					-
3.7. Total hours of individual study (IS) and self-taught activities (ST)				**214**	
3.8. Total hours per semester				**250**	
3.9. Number of credits				**10**	

4. Prerequisites (where applicable)

4.1. curriculum-related	
4.2 skills-related	

5. Specific conditions (where applicable)

5.1. course-related	
5.2. seminar/laboratory-related	

6. Subject-specific learning outcomes

Knowledge

1. The graduate possesses knowledge related to concepts, methods and models used in research activities
2. The graduate has the skills to perform research in Computer Science respecting the ethical principles
3. The graduate has the necessary knowledge to write, publish and review scientific papers in Computer Science
Skills
1. The graduate possesses skills for ethical conduct in all research activities
2. The graduate has the skills to perform research in Computer Science especially for algorithmic thinking and for critical thinking
3. The graduate has the skills to audit unethical research use
Responsibility and autonomy
1. The graduate has the responsibility to address and to follow the ethical principles of research in Computer Science
2. The graduate has the autonomy to carry out research in Computer Science in an ethical and transparent way

7. Contents

7.1. Course	**Teaching and learning methods**	**Remarks[1]**
Definitions. Computer science subjects. ACM classification system	Interactive exposure, explanation, conversation	
Research in computer science: theoretical, experimental, applied	Interactive exposure, explanation, conversation	
Writing a research paper. Rewiewing a research paper. Acceptance criteria. Presenting papers at scientific conferences	Interactive exposure, explanation, conversation	
Academic ethics and integrity: definitions, general ethical issues of scientific research	Interactive exposure, explanation, conversation	
Ethical issues in fundamental and interdisciplinary research	Interactive exposure, explanation, conversation	
Ethical aspects of empirical research in Computer Science	Interactive exposure, explanation, conversation	
Ethical use of genAI in research	Interactive exposure, explanation, conversation	
Computer Science in Romania	Interactive exposure, explanation, conversation	

Bibliography

1. The 2012 ACM Computing Classification System https://www.acm.org/publications/class-2012
2. ACM Council, Code of Ethics, http://www.acm.org/about/code-of-ethics
3. B. Buchberger, Thinking, Speaking, Writing, http://www.risc.jku.at/people/buchberger/thinking_course.html
4. P.Edwards: How to give an academic talk, http://pne.people.si.umich.edu/PDF/howtotalk.pdf
5. M. Frenţiu, I.A.Rus, Metodologia Cercetării Ştiinţifice în Informatică, Ed. Presa Universitară Clujeană, 2014.

[1] For example, organisational aspects, recommendations for students, specific aspects relating to the course/seminar, such as inviting experts in the field, etc.

6. Hirsch, An index to quantify an individual's scientific research output, http://www.pnas.org/content/102/46/16569.full
7. The Clarivate Analytics Impact Factor, https://clarivate.com/essays/impact-factor/
8. R.Kitchin,& D. Fuller, The Academic' Guide to Publishing, SAGE Publications, London, 2005.
9. H.F. Moed, Citation Analysis in Research Evaluation, Springer, 2005.
10. M.A.Nielsen, Principles of Effective Research, http://michaelnielsen.org/blog/principles-of-effective-research/
11. University ranking, http://www.topuniversities.com/university-ranking-articles/
12. J.Radel, Oral Presentations, http://people.eku.edu/ritchisong/oralpres.html
13. V.Rus, Fondarea informaticii clujene, Editura Albastră, Cluj-Napoca, 1997.
14. I.A.Rus, E.Muntean, Matematica şi Informatica, trecut, prezent şi viitor, Ed.Promedia-Plus, Cluj-Napoca,1998.
15. B. Spillman, I. Parberry, How to Present a Paper: A Speaker's Guide, http://www.sfu.ca/~jeffpell/Ling480/ParberryMembrane.pdf
16. Codul etic al UBB, http://www.ubbcluj.ro/ro/despre/organizare/files/etica/Codul_Etic_al_UBB.pdf
17. IEEE Citation Reference https://ieee-dataport.org/sites/default/files/analysis/27/IEEE%20Citation%20Guidelines.pdf

7.2. Seminar/ laboratory	Teaching and learning methods	Remarks
Document writing guide	Conversation, case study	
Choice of individual research topic RT	Analysis, conversation	
Presentation of the state of the art in chosen topic	Analysis, conversation	
Writing a research proposal in the chosen topic	Analysis, conversation	
Bibliography: same as course		

8. Evaluation

Type of activity	8.1 Evaluation criteria[2]	8.2 Evaluation methods[3]	8.3 Percentage in the final grade
8.4. Course	Course content	How the course knowledge is used to prepare the reports	20%
8.5. Seminar/ laboratory	Seminar work	State of the art	30%
		Research proposal	50%
8.6 Minimum standard for passing			
All reports should be sent to the instructor in order to pass the exam The minimum grade for passing the exam is 5 (on a scale from 1 to 10) The student must prove that she/he is able to review and to write a research paper			

9. SDG labels (Sustainable Development Goals)[4]

[2] The evaluation criteria must directly reflect the learning outcomes targeted at the level of the degree programme respectively at the level of the subject. More specifically, the learning outcomes set out in the expected learning outcomes are assessed.

[3] Both final evaluation methods and ongoing evaluation strategies should be established.

[4] Select a single label which, according to the *Implementation of SDG labels in the academic process*, best matches the subject. If the subject addresses sustainable development in a generic manner (i.e. by presenting/introducing the general framework of sustainable development, etc.), then the Sustainable Development generic label may be applied. If none of the labels describe the subject, select the last option: *"No label applies."*

	○	Sustainable Development Generic Label

								
○	○	○	**YES**	○	○	○	○	○
								No label applies
○	○	○	○	○	○	○	○	○

Date of entry:
16.02.2026

Signature of course coordinator

Signature of seminar coordinator

Date of approval in the department:
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Signature of the head of department

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