

SYLLABUS

1. Information regarding the programme

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| 1.1 Higher education institution | Babeş Bolyai University |
| 1.2 Faculty | Faculty of Mathematics and Computer Science |
| 1.3 Department | Department of Computer Science |
| 1.4 Field of study | Computer Science |
| 1.5 Study cycle | Bachelor |
| 1.6 Study programme / Qualification | Mathematica-Informatica romana |

2. Information regarding the discipline

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|---|---|--------------|----------|-------------------------|----------|------------------------|-----------------|
| 2.1 Name of the discipline (en) (ro) | Academic ethics and integrity (in Computer Science) | | | | | | |
| 2.2 Course coordinator | Assoc.Prof.PhD. Simona Motogna | | | | | | |
| 2.3 Seminar coordinator | - | | | | | | |
| 2.4. Year of study | 3 | 2.5 Semester | 5 | 2.6. Type of evaluation | C | 2.7 Type of discipline | Optional |
| 2.8 Code of the discipline | MLE2035 | | | | | | |

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

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|---|-----|----------------------|----|------------------------|-------|
| 3.1 Hours per week | 3 | Of which: 3.2 course | 2 | 3.3 seminar/laboratory | 1 pr |
| 3.4 Total hours in the curriculum | 36 | Of which: 3.5 course | 24 | 3.6 seminar/laboratory | 12 pr |
| Time allotment: | | | | | hours |
| Learning using manual, course support, bibliography, course notes | | | | | 10 |
| Additional documentation (in libraries, on electronic platforms, field documentation) | | | | | 14 |
| Preparation for seminars/labs, homework, papers, portfolios and essays | | | | | 14 |
| Tutorship | | | | | 10 |
| Evaluations | | | | | 16 |
| Other activities: | | | | | - |
| 3.7 Total individual study hours | 64 | | | | |
| 3.8 Total hours per semester | 100 | | | | |
| 3.9 Number of ECTS credits | 4 | | | | |

4. Prerequisites (if necessary)

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| 4.1. curriculum | • |
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| 4.2. competencies | • |
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5. Conditions (if necessary)

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| 5.1. for the course | • |
| 5.2. for the seminar /lab activities | • |

6. Specific competencies acquired

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| Professional competencies | <ul style="list-style-type: none"> • C3.2 Identify and explain the basic computer science models corresponding to application domain • C3.4 Data and model analysis |
| Transversal competencies | <p>CT1 Apply rules to: organized and efficient work, responsibilities of didactical and scientific activities and creative capitalization of own potential, while respecting principles and rules for professional ethics</p> <p>CT2 Efficient organization of activities in an inter-disciplinary group and development of empathic communication, relational and collaboration abilities</p> <p>CT3 Use efficient methods and techniques for learning, knowledge gaining, and research and develop capabilities for capitalization of knowledge, accomodation to society requirements and communication in English</p> |

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

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| 7.1 General objective of the discipline | <ul style="list-style-type: none"> • Be able to understand and apply the regulations, law and ethical practices in Computer Science • Detect intelectual property violations • Analyze risks and alternative decisions regarding ethical aspects of Computer Science |
| 7.2 Specific objective of the discipline | <ul style="list-style-type: none"> • Be able to use ethical analysis methodologies • Critical abilities in identifying violation of domain's law |

8. Content

| 8.1 Course | Teaching methods | Remarks |
|---|---|---------|
| 1. Introduction to legal and ethical issues in Computer Science | Exposure: description, debate | |
| 2. Professional ethics | Exposure: description, debate, case studies, examples, dialogue | |
| 3. Intellectual Property | Exposure: description, debate, case studies, | |

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|--|---|--|
| | examples, dialogue | |
| 4. Licences, open access, free source | Exposure: description, debate, case studies, examples, dialogue | |
| 5. Risks and liabilities in software products | Exposure: description, debate, case studies, examples, dialogue | |
| 6. Ethical and legal issues related to privacy | Exposure: description, debate, case studies, examples, dialogue | |
| 7. Internet Regulations | Exposure: description, debate, case studies, examples, dialogue | |
| 8. Free speech and content control in cyberspace | Exposure: description, debate, case studies, examples, dialogue | |
| 9. Ethical Issues Involving Computer Security: Hacking, Hacktivism, and Counterhacking | Exposure: description, debate, case studies, examples, dialogue | |
| 10. The Ethics of Cyber Conflict | Exposure: description, debate, case studies, examples, dialogue | |
| 11. Challenges in Ethics: Artificial Intelligence, Health Systems | Exposure: description, debate, case studies, examples, dialogue | |
| 12. Ethical aspects of research in Computer Science | Exposure: description, debate, case studies, examples, dialogue | |
| <p>Bibliography</p> <p>George Reynolds- Ethics in Information Technology, Cengage, 4th ed, 2011</p> <p>William John Brinkman, Alton F. Sanders - ETHICS IN A COMPUTING CULTURE, 2012, available online at http://www.cengagebrain.co.nz/content/9781133990932.pdf</p> <p>ACM & IEEE digital library</p> <p>L. Hinman – ethics.sandiego.edu</p> | | |

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 course respects the IEEE and ACM Curricula Recommendations for Computer Science studies;
- The course exists in the studying program of all major universities abroad;
- The content of the course is providing basic ethical conduct stated by ACM and IEEE, and legal regulations of EU and Romania

10. Evaluation

| Type of activity | 10.1 Evaluation criteria | 10.2 Evaluation methods | 10.3 Share in the grade (%) |
|---|---|---|-----------------------------|
| 10.4 Course | - know the basic principle of the domain; - apply the course concepts - problem solving | Continous evaluation at debates and dialogues | 50% |
| | - apply ethical principles | Oral or written presentation in the class or in the local community | 50% |
| 10.6 Minimum performance standards | | | |
| ➤ At least grade 5 (from a scale of 1 to 10) at both evaluation forms | | | |

Date

27.04.2022

Signature of course coordinator

Assoc.Prof.PhD. Simona MOTOGNA

Signature of seminar coordinator

Date of approval

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Signature of the head of department

Prof.dr. Laura Dioşan