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| Course description | |
| Course | Ethics in Research |
| Department | Department of Biomathematics and Informatics |
| Language | English |
| Nature | Optional |
| Year/semester | 1st year, spring-term |
| Credits (ECTS) | 2 |
| Lectures (hour/semester) | 8 hours e-learning + 4 lectures in person |
| Plenary lectures (hour/semester) | |
| Practicals (hour/semester) | |
| Responsible teacher | Dr. Harnos Andrea |
| Teacher(s) | Dr. Harnos Andrea |
| Prerequisites | |

Learning outcome (include skills and competencies, if any)

In a broader sense, we discuss issues of the relationship between science and society, the general ethical and social context of research, research freedom and its limits, in a narrower sense, the “integrity” of researchers, the moral rules and self-regulation of scientific research. The topic is the role of international and domestic bodies and organizations dealing with science ethics. We discuss the Code of Ethics of the Hungarian Academy of Sciences in detail. (Scope of the Code of Ethics, ethical and ethical principles of scientific research, ethical practice of conducting research, ethical issues related to the communication of results. We deal with violations of research ethics and the bodies dealing with them, and the principles of ethical research.)

Outcome assessment

The electronic exam is an essay and test questions related to the topics. The evaluation is based on the results of the test and the work done on the case studies.

Weekly schedule of lectures and practicals

| WEEK | Lecture topics |
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| Week 1 | The concept and principles of scientific ethics |
| Week 2 | Conducting scientific research |
| Week 3 | Publishing scientific results |
| Week 4 | Violation of research ethics |
| Week 5 | Rules of procedure in case of suspicion of ethical misconduct |
| Week 6 | Data management and publishing |
| Week 7 | Ethical issues in statistical analysis |
| Week 8 | Bioethics |

| WEEK | Practical topics |
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| Week 1 | Watch the movie "And the Band Played On" and discuss scientific ethics issues through the forum. |
| Week 2 | Case study 1 |

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| Week 3 | Case study 2 |
| Week 4 | Case study 3 |
| Week 5 | Case study 4 |
| Week 6 | Case study 5 |
| Week 7 | Case study 6 |
| Week 8 | Discussion of case studies |

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| Recommended literature |
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| Ethical Guidelines for Statistical Practice |
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| Albert-Wager, How to handle authorship disputes: a guide for new researchers, The Cope report 2003 |
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| ALLEA: The European Code of Conduct for Research Integrity |
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| Note(s) |
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