



Dear colleagues,

Thank you for considering participating in this survey. Its purpose is to understand the landscape with respect to the teaching of Ethics in Informatics* at higher level education institutes across Europe. We would like to elicit knowledge to compare with our findings from the Ethics4EU project in 2019, but also to gain an understanding of how other issues (Covid-19, AI regulations, new AI tools, new legislation) have impacted the status quo. Survey results will be used to produce a report and paper to allow better understanding of the needs and requirement of Informatics lecturers in term of teaching Ethics in Informatics.

We would be grateful if you could fill in this questionnaire on behalf of your institution. It will take around 15-20 minutes of your time. Please note that regardless of whether your institution teaches Ethics in Informatics programmes or not, it is important for us to get your feedback on this highly important topic for the community.

Participation in this study is completely voluntary. There is no obligation to participate, and should you choose to do so you can refuse to answer specific questions or decide to withdraw from the study. All information you provide will be confidential and your anonymity will be protected throughout the study. IP addresses will not be collected at any point, meaning the data you provide cannot be traced back to you. When the results are shared or published, there will be nothing to identify you or your institution. You maintain the right to withdraw from the study at any stage up to the point of data submission. At this point your data will be collated with that of other participants and can no longer be retracted.

Thank you for your contribution!

Best regards, Informatics Europe Ethics WG.

**Informatics is the preferred term in Europe for what is known as Computing or Computer Science in other parts of the world.*

Section A: About Your Institution

A1. 1. What is your primary role with your institution? (*choose all that apply*)

Lecturer ☐

Professor ☐



Course Leader ☐

Head of Department ☐

Head of School ☐

Other ☐

Other

A2. 2. What country is your institution primarily based in? (*choose only one answer*)

Albania ☐

Andorra ☐

Armenia ☐

Austria ☐

Azerbaijan ☐

Belarus ☐

Belgium ☐

Bosnia and Herzegovina ☐

Bulgaria ☐

Croatia ☐

Cyprus ☐

Czech Republic ☐

Denmark ☐

Estonia ☐

Finland ☐

France ☐

Georgia ☐

Germany ☐

Greece ☐

Hungary ☐





- Iceland ☐
- Ireland ☐
- Italy ☐
- Kazakhstan ☐
- Kosovo ☐
- Latvia ☐
- Liechtenstein ☐
- Lithuania ☐
- Luxembourg ☐
- Malta ☐
- Moldova ☐
- Monaco ☐
- Montenegro ☐
- Netherlands ☐
- North Macedonia ☐
- Norway ☐
- Poland ☐
- Portugal ☐
- Romania ☐
- Russia ☐
- San Marino ☐
- Serbia ☐
- Slovakia ☐
- Slovenia ☐
- Spain ☐
- Sweden ☐
- Switzerland ☐
- Turkey ☐
- Ukraine ☐





United Kingdom

☐

Other

☐

A3. Please specify:

A4. 3. Approximately how many students attend your institution? (*choose only one answer*)

1-100

☐

101-500

☐

501-1000

☐

1001-5000

☐

5001-10000

☐

10000+

☐

A5. 4. Does your institution teach all subjects or focus on technical ones? (*choose only one answer*)

Teach all subjects

☐

Focus on technical ones

☐

A6. 5. Approximately how many students are studying Informatics or related courses (e.g. Informatics, Computer Science, Information Systems, Analytics, Computing for Business, Computer Engineering, etc.)? (*choose only one answer*)

1-100

☐

101-200

☐

201-300

☐

301-400

☐

401-500

☐

500+

☐

A7. 6. At which level of education does your institution teach Informatics and/or Informatics related programmes? (*choose all that apply*)

Bachelor

☐

Master

☐

PhD

☐



A8. 7. Does your institution teach ethics as part of any Informatics and/or Informatics related programmes (*either a full course/module as part a programme or as smaller topics within individual courses/modules*)?

Yes ☐

No ☐

Section B: Your institution is not currently Teaching Ethics as part of your Informatics programmes

B1. 1. Rate which of the following as reasons why ethics isn't taught.

	1 (disagree)	2	3	4	5 (agree)
Ethics isn't that important	☐	☐	☐	☐	☐
We have a lack of staff expertise	☐	☐	☐	☐	☐
We have a lack of staff availability	☐	☐	☐	☐	☐
We have a lack of time (there's too many other things to teach)	☐	☐	☐	☐	☐
The content we teach is too far away from ethics	☐	☐	☐	☐	☐

B2. If none of the reasons above fits, specify your reason why ethics isn't taught in Informatics and/or Informatics related programmes in your institution.

B3. 2. How important do you think it is that ethics is taught in an Informatics and/or Informatics related programme? (*1=not at all important, 5=very important*)

1 ☐

2 ☐

3 ☐

4 ☐

5 ☐



B4. 3. Please explain in a sentence or two why you answered the previous question the way you did.

B5. 4. Are there plans to teach ethics in Informatics and/or Informatics related programmes?

Yes ☐

No ☐

Don't know ☐

B6. 5. Please comment on the plans to teach ethics in your institutes' Informatics and/or Informatics related courses.

Section C: Your institution is currently Teaching Ethics as part of your Informatics programmes

C1. 1. At which level of education is ethics taught as part of your Informatics and/or Informatics related programmes? (choose all that apply)

Bachelor ☐

Master ☐

PhD ☐

C2. 2. How is ethics taught? (choose only one answer)

MODULE refers to a single topic that a student studies over one or two semesters, e.g. Databases, Computer Networks, etc.

As a stand-alone module ☐

Threaded throughout several modules ☐

A combination of both above approaches ☐

C3. 3. Which background has the person or people who teach ethics in your Informatics and/or Informatics related programmes? (choose all that apply)

Informatics ☐



- Ethics ☐
- Philosophy ☐
- Sociology ☐
- Legal studies ☐
- Other ☐

Other

C4. 4. How many teaching hours per semester is devoted to ethics topics in your Informatics and/or Informatics related programmes? (*choose only one answer*)

- 0-1 hours ☐
- 2-5 hours ☐
- 6-10 hours ☐
- 11-20 hours ☐
- 20+ hours ☐
- Don't know ☐

C5. 5. Which of the following teaching methods are used to teach ethics in your Informatics and/or Informatics related programmes?

	1 (never)	2 (sometimes)	3 (regularly)
Lectures	☐	☐	☐
Case Studies	☐	☐	☐
Debates	☐	☐	☐
Role-playing	☐	☐	☐
eLearning or Blended Learning	☐	☐	☐
Project-Based or Problem-Based Learning	☐	☐	☐
Work-Based Learning	☐	☐	☐
Guest Lecturers (academic)	☐	☐	☐
Guest Lecturers (industry)	☐	☐	☐



	1 (never)	2 (sometimes)	3 (regularly)
Guest Lecturers (government bodies)	☐	☐	☐
Guest Lecturers (professional bodies)	☐	☐	☐
Others	☐	☐	☐

C6. *Please specify the other teaching methods:*

C7. **6. Which of the following topics are taught in your Informatics and/or Informatics related programmes?**

	1 (never)	2 (sometimes)	3 (regularly)
Ethics Theory	☐	☐	☐
Data Ethics	☐	☐	☐
Artificial Intelligence/Machine Learning Ethics	☐	☐	☐
Software Engineering Ethics	☐	☐	☐
Human Computer Interaction Ethics	☐	☐	☐
Cyber Security Ethics	☐	☐	☐
Algorithmic Bias	☐	☐	☐
Privacy and Confidentiality	☐	☐	☐
Digital Surveillance Techniques	☐	☐	☐
Online Misinformation	☐	☐	☐
Intellectual Property	☐	☐	☐
Hacking	☐	☐	☐
Software Globalization	☐	☐	☐
Affective Computing	☐	☐	☐
Persuasive Computing	☐	☐	☐
Information Symmetry, Power Relations and Competitive Advantage	☐	☐	☐



	1 (never)	2 (sometimes)	3 (regularly)
Legislation concerning Computer Ethics (e.g GDPR, privacy)	☐	☐	☐
Code of Ethics (Professional bodies), e.g. IEEE, ACM	☐	☐	☐
Code of Ethics (National bodies)	☐	☐	☐
Code of Ethics (IT companies)	☐	☐	☐
Others	☐	☐	☐

C8. *Please specify the other topics:*

C9. **7. How important do you think it is that ethics is taught in an Informatics and/or Informatics related programme? (1=not at all important, 5=very important)**

1	☐
2	☐
3	☐
4	☐
5	☐

C10. **8. Has there been any increase in the amount of ethics-related content delivered in your Informatics programmes in the past 5 years? (see Question 6 for examples of ethical topics)**

Yes	☐
No	☐

C11. **9. If applicable, can you give an example (or examples) of specific ethics content that you have adjusted or added in the past 5 years?**

C12. **10. How is ethics assessed in your Informatics and/or Informatics related programmes? (choose all that apply)**

Exams	☐
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- Essays ☐
- Quizzes ☐
- Rubrics ☐
- Presentations ☐
- Portfolios ☐
- Others ☐

Others

C13. 11. In terms of assessments, has there been any new ethical content in the assessments in your Informatics programmes in the past 5 years?

- Yes ☐
- No ☐

C14. Can you give an example (or examples) of specific ethics assessment that you have adjusted or added in the past 5 years?

C15. 12. Do you know within which disciplines in Informatics and/or Informatics related courses that your institution teaches ethics?
(These classifications are based on criteria by ACM - Association for Computing Machinery)

	Yes	No	Don't know
Computer Architecture, Pervasive Computing, Ubiquitous Computing	☐	☐	☐
Computer Systems, Parallel/Distributed Systems, Sensor Networks, Embedded Systems, Cyber-Physical Systems	☐	☐	☐
Software Engineering, Operating Systems, Computer Languages	☐	☐	☐
Theoretical Computer Science, Formal Methods, and Quantum Computing	☐	☐	☐
Cryptography, Security, Privacy, Quantum Crypto	☐	☐	☐
Algorithms, Distributed, Parallel and Network Algorithms, Algorithmic Game Theory	☐	☐	☐



	Yes	No	Don't know
Artificial Intelligence, Intelligent Systems, Multi Agent Systems	☐	☐	☐
Computer Graphics, Computer Vision, Multimedia, Computer Games	☐	☐	☐
Human Computer Interaction and Interface, Visualisation and Natural Language Processing	☐	☐	☐
Web and Information Systems, Database Systems, Information Retrieval and Digital Libraries, Data Fusion	☐	☐	☐
Machine Learning, Statistical Data Processing and Applications Using Signal Processing	☐	☐	☐
Scientific Computing, Simulation and Modelling Tools	☐	☐	☐
Bioinformatics, Biocomputing, and DNA and Molecular Computation	☐	☐	☐

Section D: Some contemporary ethical concerns related to delivery and assessment

D1.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Ethics issues regarding online teaching including online classroom tools

- Training ☐
- Guidelines ☐
- Materials ☐
- None of those ☐



D2.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

e-Proctoring (online monitoring of a student when remotely undertaking an assessment)

- Training ☐
- Guidelines ☐
- Materials ☐
- None of those ☐

D3.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

e-Assessment

- Training ☐
- Guidelines ☐
- Materials ☐
- None of those ☐

D4.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Learning Analytics

- Training ☐


Guidelines ☐

Materials ☐

None of those ☐
D5.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Accessibility and Diversity Needs

Training ☐

Guidelines ☐

Materials ☐

None of those ☐
D6.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Academic Integrity

Training ☐

Guidelines ☐

Materials ☐

None of those ☐



D7.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Plagiarism

- Training ☐
- Guidelines ☐
- Materials ☐
- None of those ☐

D8.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Large Language Models s such as ChatGPT

- Training ☐
- Guidelines ☐
- Materials ☐
- None of those ☐

D9.

We recognise that in the last 5 years a number of significant challenges have arisen, including the introduction of new legislation, the development of new AI tools, and the impact of the COVID-19 lockdown on teaching practices.

1. Has your institute provided any specific support in terms of ethical issues on the following topics? (*choose all that apply*)

Data Management for Student Information

- Training ☐
- Guidelines ☐



Materials ☐

None of those ☐

D10. 2. In terms of how you deliver your content, given the ethical considerations above in Question 1, have any of these issues resulted in adjusting your approach to delivery of teaching in the past 5 years?

Yes ☐

No ☐

D11. Pleasy specify how:

Section E: Finishing Off

E1. 1. Your Institution name

E2. 2. Your name / email address (*optional*)

E3. 3. Any further comments regarding ethics in Informatics and/or Informatics related programmes.



Thank you for your time!

We will keep you updated about the survey results.