



Information and consent sheet

Study title: Investigating solutions to early misconceptions diagnostic approaches to taught concepts

Grant: tEaching, Learning and EValuating in a sociAlly disTancing wORld (ELEVATOR)

<https://www.cs.ubbcluj.ro/~avescan/elevator>

Study Project Team: conf. dr. Andreea Vescan, lect. dr. Camelia Serban, conf. Dr. Magdas Ioana, student doctorand Flavia Borodi, student masterand Alexandra Pasca, colaboratori externi proiect: Prof. dr. Bruno Dumas, student doctorand Julie Henry, cercetator Fanny Boraita.

We conduct a research study to investigate students' mental patterns regarding the understanding of concepts taught in coordinated disciplines.

The project is implemented by researchers from the Faculty of Informatics Mathematics and the Faculty of Psychology and Educational Sciences, Babeș-Bolyai University (UBB), together with researchers from the University of Namur.

Before deciding if you want to participate, it is important to understand why we want to conduct this research and what it entails. Please do not rush and read the following information carefully. Please ask us if you have any questions or would like more information. Thank you for reading this information.

What is the study about?

The purpose of the study is to investigate the early misunderstanding of some concepts taught to determine the mental patterns of understanding / misunderstanding of a concept.

In this research, we invite you to go through several questionnaires received at well-defined time intervals, questionnaires on understanding a concept taught in the discipline you are studying.

The answers you give will be strictly confidential and used only for research purposes.

Do I have to participate?

It is entirely up to you whether or not you want to participate, although we would very much like you not to refuse us. If you agree now, but change your mind later, you can withdraw from the study. This will not affect you in any way.

What will I have to do?

After we receive your consent to participate in the study and sign your informed consent, we will ask you to answer all the questions from the received questionnaires proposed by your teacher.



Does participating in this study benefit me?

Your participation is completely **voluntary** and does not imply the receipt of any material benefits. We hope that you will find satisfaction in the fact that you will be able to help determine the mental models related to the understanding / misunderstanding of a concept, models that will be used by teachers in the next instances of teaching the concept. However, teachers may award students bonus points in the discipline after participating in this study.

Who will have access to the information I provide?

Your email addresses will be strictly available to the research team responsible for the project. The information we receive from you will be treated as strictly confidential, in accordance with UBB rules and the ethical rules that govern high quality research worldwide.

Regarding the data and results, we will only report general conclusions, and you will never be identified. The published results will only be based on codes, not individual data, and nothing you say will be presented outside the research team.

Anonymized data and research results may also be reported to those who have a legal obligation to assess the quality and safety of research, including: Romanian / EU government agencies or other persons from Babeș-Bolyai University (eg members of the Scientific Council).

How will personal data be used?

If you agree to participate in this study, the research team may complete a research report. The research report will NOT include your name or any other identifying information. The research report will only include general conclusions, and you will never be identified. The research report will also include the information collected by the research team for the purpose of the study. The research team may use the research report, which will contain ONLY anonymized data, and may share it with others in the following ways:

- For conducting other research;
- Sharing with researchers from Romania or other countries;
- Introduction to research databases;
- Use to improve the design of future studies;
- Use for publishing articles or for presentations to other researchers;
- Submission of applications to government agencies in Romania or abroad in order to receive approval for future studies.

Is there a risk to me if I participate in this study?

There are no probable risks.

Who evaluated and approved the study?

The study was evaluated and approved (followed by signatures) by a team of researchers at Babes Bolyai University and is in line with ethical standards governing high quality research



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worldwide, such as the American Psychological Association (APA) Ethics Regulation or the Declaration of Helsinki (1974, with subsequent additions).

Can I ask additional questions?

For any additional information, please do not hesitate to contact us at the following e-mail address (es): andreea.vescan@ubbcluj.ro, camelia.serban@ubbcluj.ro, ioana.magdas@ubbcluj.ro



Informed Consent to Participate in the Study

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1. I confirm that I have read and understood the information sheet for the above-mentioned study. I had the chance to analyze the information, ask questions and get satisfactory answers for it.
2. I understand that my participation is voluntary and that I am free to withdraw at any time, without giving any reason and without my rights being affected in any way.
3. I agree to the use of anonymised data for research purposes. I received a signed copy of this form.
4. I agree to participate in the above-mentioned study.

Name of participant

Andrei Cusiatic

Date

19 / 10 / 2021

Signature

Email Address

andreicusiatic@yahoo.com