



Socratic debate about E4E Survey

CISPEE 2023 6Jul23 14h - 15h, Guimarães, Portugal, <https://cispee2023.uminho.pt/>.

Engineering Students: Two from BEST, two from ESTIEM, one* from NEEMAC and one* from UCoimbra.

Teachers: Docente (UMinho), Docente (UCoimbra) and Alfredo Soeiro (AECEF/E4E and UPorto).

Summary:

With virtual (*) and presential participation students expressed their opinions about three topics of the E4E survey questions. Major points were:

- EE (Engineering Education) programs do not address sufficiently the sustainability issues, theories concepts, case studies, problem approaches and necessary competences;
- None of the students was aware of the GreenComp Sustainability framework from the Joint Research Centre of European Commission, Jan22;
- Teachers did not present any formal training on Sustainability and, therefore, students recommended related training for teachers so these can address the sustainability teaching to the engineering students;
- Concerning Artificial Intelligence and Automation students outside the related engineering programs related that there was not any training or education about these subjects;
- Students mentioned that it would be highly desirable that teachers had training in these areas so they could train the EE students on these issues;
- Students reported using ChatGPT but without knowing how the algorithms produced the results;
- It was mentioned to read the book “The Master Algorithm” by Pedro Domingos recommended by Bill Gates to understand how the AI algorithms and tools perform;
- Concerning diversity and inclusion students reported situations that could be improved in their EE classes and contexts;
- Students reported that no specific training or classes were part of the EE programs and curricula;
- Students suggest that teachers could have training, for them and for teachers, about how to handle diversity and inclusion in the EE programs.

Compiler - Alfredo Soeiro 18Jul23