



Starting a new challenge

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Abstract: Idea and conception of the scientific article developed for IOSTE.

Key words: IOSTE, practice-based learning, teaching strategy.

Dec 20, 2021

Today I woke up thinking about how it would be possible to take the idea of -madScientistsDiary- forward. What would be the limitations and difficulties, how would it be possible to disseminate information about the work in progress... if that would be possible.

I was also preoccupied with issues such as newspaper formatting and everything else.

So, the possibility of a pilot project emerged, in which the practice would demonstrate the best path and the difficulties.

Just now I learned about the launch of the call for papers for the Symposium IOSTE 2022.

https://ioste.org/ioste_brochure_2020-2022.pdf

Given a number of factors that have converged in recent days, I decided to submit a proposal for this symposium.

At that point I understood, that dissemination can even start with an idea. Perhaps it is even recommended that this be so...

My idea for IOSTE: is it possible to unite research, collaborative work, information technology and transparency in the quest to improve undergraduate engineering education?

I will soon format this first report in the form of a newspaper article, with bibliographical references, abstract and whatever else is appropriate. I hope this will be the first article in -madScientistsDiary- and that it will bring good results and many other ideas.

Dec 21, 2021

The funniest part of the text I present here is that within the text the theme that will be worked on in the IOSTE article emerged very explicitly. And I believe

that this could be the theme: practice shows the way.

This topic is directly associated with the work I developed with students in my extension projects. I developed such projects, the lesson plans of the courses I teach, and everything else, always with this focus: teaching through practice. And, of course, this is directly related to research and extension.

But it's not always easy to do this...

May 4, 2022

Finally the Mad Scientists Diary got its new format.

On the proposal for the IOSTE symposium [1], the article "Practice shows the way" was prepared and recently approved. It presents a university teaching strategy, grounded on a practice-based learning approach, which unites research, extension and technology seeking to improve the teaching of Mathematical Modeling and Optimization.

References

- [1] IOSTE (2022). "Esperanças in uncertain times: the role of science and technology education in a changing world." *XX IOSTE International Symposium 2022*. Recife, Brazil. <https://ioste2022.com>.