Good practices in Flexible Learning Spaces in Portugal: what has been done in spaces in pandemic times?

Sci&Math Creative Lab
Innovative Learning Environments in Teacher Education

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INTERDISCIPLINARY LEARNING ACTIVITIES

CO-TEACHING

INNOVATIVE LEARNING ENVIRONMENTS

INQUIRY, PROBLEM & PROJECT-BASED LEARNING

CODING AND ROBOTICS

7E LEARNING CYCLE MODEL

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS) EDUCATION

OER – OPEN EDUCATIONAL RESOURCES
Project Results

- PTs are globally satisfied with the hardware, software, natural light and acoustics of the ILE CreativeLab_Sci&Math and they attribute the major impact on their performance to visibility, natural light and acoustics of the ILE.

- PTs are very satisfied with the ILE layout for interaction and collaboration with others.

- A technologically enhanced environment, with good natural light, acoustics, comfortable furniture and a larger space could have a positive impact on students’ satisfaction about the pedagogical space they are using and in their performance.
Project Results

◎ PTs attributed to the ILE a positive impact in their pedagogical content knowledge.

◎ Increases PTs’ motivation and engagement and understanding of mathematical and science concepts.

◎ Promotes collaboration between students.

◎ Develops computational thinking.

◎ Contributes to teacher's professional development.
Open Educational Resources
Project Results


Pandemic times
What has been done in Sci&Math Creative Lab?
Adaptation to pandemic times

- Promote blended Learning
- Organize schedules in order to divide very large classes
- Keep a safe distance between students
- Develop a schedule for routine cleaning and place alcohol-based hand sanitizers
- Maintain an adequate ventilation
- Keep each student’s belongings separated from others’
- Discourage sharing of items that are difficult to clean or disinfect
- Ensure adequate supplies to minimize sharing
- Guarantee a safe collaboration between students (outdoor activities)
Adaptation to remote teaching

- Learning management system (Moodle)
- Interaction with students
- Prepare students to work autonomously and remotely
- Combining teaching strategies
- Ensuring accessible and diverse technological resources
- Virtual experimentation through interactive simulations
- Clearly presenting the assessment criteria
- Well-organized instruction
- Diversify assessment strategies and instruments
- Technologies that promote collaborative work and formative assessment
Future Directions
THANKS

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