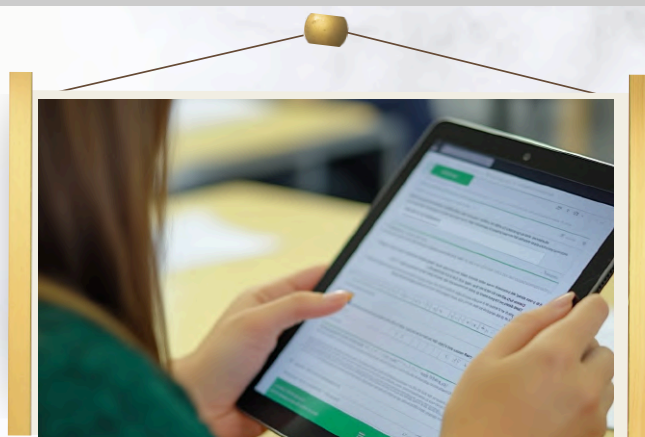


Igniting student engagement: H5P's transformative potential in higher education

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Commitment

Student engagement, a key factor in the success of online education, requires effective strategies to foster it, particularly in hybrid learning environments.



Activities with H5P

This study evaluated the impact of interactive activities designed with the H5P tool on the engagement of 87 undergraduate students from two Ecuadorian universities. A quasi-experimental pretest-posttest design was employed, comparing control and experimental groups.



Instrument

Data collection was conducted through a 12-item questionnaire covering cognitive, affective, and behavioral engagement dimensions, complemented by open-ended questions to gather qualitative insights and deepen the understanding of students' perceptions and experiences.



Results I

The results suggest that the H5P-based intervention significantly improved concept comprehension, knowledge application, depth of learning, and enjoyment. However, no significant effects were observed on the perceived relevance of the content or collaboration among students.

Results II

These findings indicate that the effectiveness of H5P is limited unless integrated into a broader and more strategic instructional design that aligns with active learning principles. Therefore, it is recommended to complement this tool with pedagogical strategies that actively promote collaboration, content relevance to students' interests, and contextual adaptation. Suggested approaches include teamwork, content specialization, discussions based on interactive materials, and co-creation of activities that foster meaningful interactions.



Future suggestions

Future research should employ experimental designs with random assignment, larger and more diverse samples, and multidimensional engagement measurements to optimize the use of technological tools in fostering effective and sustainable student engagement across various educational contexts and disciplines.

