

Teaching introductory physics interactively using videos and simulations in a personalized learning platform

Thursday 8 September 2022 16:45 (1 hour)

We summarize the creation and early results of introductory physics courses at Portland State University (PSU) with an emphasis on active and interactive features such as videos and simulations to enhance student learning. The course is designed to support student learning with conceptual questions, scaffolded homework, and simulations where students can use activities to explore the concepts. Videos are included to present the content along with text pages for students to choose from per their learning preferences. Videos were also created using experts in different disciplines such as biology and medicine for students to recognize the relevance of physics to those disciplines.

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Session Classification: Poster session

Track Classification: Challenges and opportunities of use of multimedia including distance learning.