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Self-paced, instructor-assisted approach to teaching linear algebra. (English) [Zbl 07465796]

Summary: In this paper we explain why we decided to abandon the traditional classroom instruction
of Linear Algebra and switched to a self-paced, instructor-assisted course format. We also describe our
experience with creating a self-paced course in NCLab, and with teaching it at a tier-1 research university
for three consecutive semesters. The results of a student survey and student comments are presented.

MSC:
97D40 Mathematics teaching methods and classroom techniques
97H60 Linear algebra (educational aspects)
97U50 Computer-assisted instruction, e-learning (aspects of mathematics education)

Keywords:
linear algebra; mathematics; higher education; self-paced course; learning by doing

Software:
Python; MathJax

Full Text: DOI

References:

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