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Opportunities for Active Learning

This presentation will provide an overview of an ongoing project to introduce active learning to the undergraduate physics curriculum through blended learning and interactive demonstrations. Flipped classroom approaches and teaching resources have been developed and used for several physics courses and modules. In parallel, over the last three years a bank of experimental demonstrations have been developed for all four years of the undergraduate physics degree, documented and catalogued. Many of these demonstrations have associated learning cycle questions and evaluation resources, developed with the course leaders for use either in person or remotely. The effectiveness of both active approaches have been measured and evaluated using surveys, focus groups, interviews, in lecture observation and Mentimeter quiz analyses.

Key words

Physics, Active Learning, Demonstrations, Blended Learning

Region

UK/Ireland

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