

ACTIVE LEARNING CLASSROOMS IN PHYSICS EDUCATION

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Abstract

Innovations in science teaching and the introduction of technological materials into educational environments have led to the emergence of classes in which new teaching models are applied. These classes, based on constructivist learning and using the active learning approach, were first applied in the field of physics education with the name "active learning classes". These classes are examined under two general models as traditional and full studio. The active classes using the traditional model are examined under three headings as exploratory laboratories, course-based models and out-of-class practice-based models. In the full studio model, the theoretical course, the practice and the laboratory course classifications have been abolished. These classes, which were established in the field of physics education, have been inspired by the establishment of new classes and new approaches that can be used both in science education and in other fields by taking samples by many universities and institutions over time. The aim of this study is both to provide examples from these classes and to discuss the impact of these classes on the educational field.

Keywords: Active learning, active learning classrooms, traditional model, full studio model.