



GIREP-EPEC

Transforming physics learning via Research & Practice
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Influence of a professional learning programme in physics on teachers' beliefs and classroom practices

Tuesday 1 July 2025 16:30 (20 minutes)

Instructional practices in physics classrooms are recognised as having a strong influence on students' lack of interest and continuation in studying physics. Teachers' beliefs are reported to have a significant influence on their classroom practices. This study presents the beliefs of 32 secondary teachers' and their classroom practices, after completing a two-year professional learning programme in physics. Findings reveal that teachers' have stronger beliefs about the importance of child-centred learning and that there is a positive correlation between their child-centred beliefs and their use of inquiry-based learning in physics education.

Education level

Pre-service and in-service teacher education

Physics topic

Full curriculum

Research focus

Other

Research method

Analytic Physics Education Research (Quantitative research)

Organizing preference criteria

Track

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Session Classification: Parallel oral presentations

Track Classification: Physics teacher education & Professional learning (TEACH)