



GIREP-EPEC

Transforming physics learning via Research & Practice
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Exploring the Traits of Competent Physics Teachers: Insights from Secondary School Physics Teachers

Tuesday 1 July 2025 15:50 (20 minutes)

This study explores physics teachers' perceptions of the qualities needed for a competent physics teacher. Data was collected from twenty-two secondary physics teachers through a semi-structured questionnaire. The questionnaire was validated by seven experts using the Lawshe method. Thematic analysis will be employed to identify the key attributes essential for effective teaching. The findings will contribute to professional development and teacher training programs by offering insights into the viewpoints of educators. This study is part of a large project aimed at developing a tool to get a better understanding of physics teachers and their unique attributes.

Education level

Age 15-18 (Secondary education)

Physics topic

Other

Research focus

Other

Research method

Educational design research (Qualitative research)

Organizing preference criteria

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Session Classification: Parallel oral presentations

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