



Contribution ID: 44

Type: **Oral presentation**

The Impact of Using Multimedia Technology in Learning Conceptual Electrical Knowledge

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Electrical concepts are difficult to grasp for secondary school students. According to multimedia learning theories, multimedia technology can be used to support the learning of didactic models and the collection of data in experiments. A study was conducted with 200 secondary school students, investigating the effects of using multimedia applications on students' conceptual knowledge gain and experienced cognitive load while learning. The multimedia applications used are an Augmented Reality (AR)-Application and a Simulation. This contribution presents the design, method and material of the student lab study and shares early results of the currently ongoing study.

How would you like to present your contribution?

Live in Košice (time slot to be allotted based on the programme)

Target education level (primary)

Lower-secondary education

Target education level (secondary, optional)

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Session Classification: Innovative strategies at school

Track Classification: Innovative strategies and pathways to improve physics education at school