

A Study of the Effectiveness of ICT-Based Teaching on Academic Achievement

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Abstract: *The fast boom of facts and conversation technology (ICT) in training, especially after the COVID-19 pandemic, has dramatically modified the teaching-getting to know procedure globally. In keeping with UNESCO (2023), there are 1.6 billion learners who've been impacted via the pandemic, resulting in the rapid digital transformation of schooling worldwide. This studies aimed to explore the effectiveness of ICT-based totally coaching on students' academic overall performance at the secondary education stage through recent studies studies and experimental research. This studies used the quasi-experimental method, wherein 120 students had been randomly assigned to the experimental and manipulate corporations. college students within the experimental organization received ICT-based teaching through multimedia shows, online exams, smart board, and simulations. Statistical evaluation became used, wherein the unbiased sample t-take a look at confirmed significant outcomes, indicating students' educational overall performance turned into notably stronger ($p < 0.05$) thru ICT-based teaching. those research results are steady with current worldwide research research at the effectiveness of ICT-based totally teaching, as mentioned with the aid of the OECD (2022) and global financial institution (2023).*

Keywords: ICT integration, digital learning, academic achievement, post-pandemic education, educational technology, ICT based learning

