

The impact of technology in students' critical thinking: how to get the best of technology and education?

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Abstract

In a large number of countries, digital literacy is being developed through the integration of information and communication technology (ICT) into classrooms. The latter can provide an improvement in critical thinking and idiomatic options for students to indicate their understandings. Furthermore, it can prepare students to deal with up to date technology in society and the workplace.

Critical thinking, then, is analytical, judgmental, and selective. When you are thinking critically, you are making choices. But what of creative (or lateral) thinking? That is generative, nonjudgmental, and expansive. Creative thinking has to do with change, especially when that involves escaping from a pattern. When you are thinking creatively, you are generating ideas that are unique and effective [1].

Recent educational paradigm accelerates the learning activities in all channels and platforms in order to structure the content and context delivered to learners. The content availability and accessibility to information sources change in e-learning and social learning. Advancements of technology and common used patterns provides and facilitates easy content deliveries among user groups. Learning become more in cooperative, collaborative, inter-connected, ongoing and communicative-based. It includes different learning initiatives such as in-class, work-on training, virtual classroom, game-based as well as online interactive(e-learning), conference and forum based [2].

The purpose of this work is to inspect issues within the new boundary of incorporating technology into the teaching of mathematics.

More particularly, this research paper pays special attention to how the integration of multimedia based on new methods of teaching mathematics influence students' performance and their viewpoints toward educational technology. Experimental data will be collected from an experimental group of students enrolled at a local High Schools in Shkodra, which includes students' commitment by using traditional and multimedia technology in the teaching and learning process.

The authors conducted a survey, where students of high School in Shkodra Region, participated and gave their opinion of how important are the trends in multimedia to create an idea, or evaluate their critical thinking. Using the survey, they have the possibility to give the suggestion of how to use the multimedia tools in the learning process, especially exploring the natural sciences.

Keywords: Critical thinking, technology, multimedia.

References

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