

University of Essex
Computing Department - MSc Computer Science programme
Research Methods and Professional Practice

Literature Review Outline

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The impact of modern technology on student learning experiences in higher education

Introduction

This paper is aimed to propose a brief outline of the literature review I have researched. The selected literature review topic is “The impact of modern technology on student learning experience in higher education”.

The research has been made to capture a better understanding of the learning experience from the existing studies and to identify the factors affecting the learning experience. The extended studies will be made by discussing some examples of applying modern technology to education and linking the factors influencing the learning experience to the provided examples. Each factor and example will be discussed, compared, and categorized.

The factors of the learning experience

In this section, the learning experience will be defined and the affecting factors will be identified based on the secondary research.

Interaction and involvement

I will discuss how Interaction and involvement are considered a factor in the learning experience with citations of the research provided. The interaction between students and teachers, students and students, students and learning materials will be focused on.

knowledge transfer

The ways how the knowledge is transferred and absorbed/perceived by the students will be discussed as one of the factors of the learning experience. The idea of student-centred approach (Kabita, 2003) will be provided to support this factor. This section will focus on the implications of the convenience and simplification of accessing knowledge/information in the learning experience.

Creativity

The learning materials with creativity is more appeal to the learner, in light of this, they can motivate the learners and provide a positive impact on the learning experience. The supporting research will be provided and discussed in this section.

Examples of modern technology used in education

The examples below of educationally used modern technology echo the factors of the learning experience discussed earlier.

Online study

Regarding “online study”, this example will cover the online degree, online learning platform, online resource access (online library), etc. This example will be linked to the factor “interaction” as it provides higher flexibility for the learners to interact with the teachers, peers, and the learning materials. The example will also link to the factor “Creativity” and the reason will be discussed. The case studies will be provided with comprehensive research to support the idea.

Communication tool

In this section, how the modern communication tool interacts with the pedagogical model and learning process will be discussed. The communication tool will be linked to the factor “interaction”. The case studies will be provided with extended research to support the idea.

Visual aid utilization

With the aid of modern technology, it is possible to visualize certain educational materials to enhance the outcome of learning. This topic will be linked to the factors “Knowledge transfer” and “creativity”, and extended research will be provided to support the idea. This topic does not include the projector or the presentation of PowerPoint slides as they are not considered as “modern technology”.

Conclusion

Much research has been studied to see a bigger picture of the academic research which have been made in modern technology and learning experience. After the review, I found little research on this topic which is focusing on higher education students, and I suggest this might be the gap that exists in research to date. All the referenced research will be included in the formal literature review to support the ideas mentioned. After the literature review is completed, the research should aim to fill the gap and provide further investigation on this topic.

Reference

Bose, K. (2003) “An E-Learning Experience: A written analysis based on my experience in an e-Learning Pilot Project”, *The International Review of Research in Open and Distributed Learning*, 4(2). doi: 10.19173/irrodl.v4i2.151.