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| **WRITING A LITERATURE REVIEW**  **Guiding questions to support planning, revising, and refining of a literature review \*** |

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| 1. | **What is the focus and aim of your review? Who is your audience?**  The purpose of this literature review is to provide an in-depth analysis of the role of modern technology in the student learning experiences of institutions of higher education. This review examines the historical development of modern technology, its theoretical frameworks, the implications of modern technology for student engagement, the challenges facing institutions, and the student's perception of modern technology. The objective of this review is to gain an in-depth understanding of the ways in which modern technology has affected higher education, including historical context, theoretical bases, practical applications, and student perceptions. |
| 2. | **Why is there a need for your review? Why is it significant?**  This review is essential in order to make informed decisions, enhance teaching methods, address issues, maximize student learning, inform future research, foster inclusivity, equip students with the knowledge and skills to succeed in using modern technology, and foster meaningful dialogue. |
| 3. | **What is the context of the topic or issue? What perspective do you take? What framework do you use to synthesise the literature?**  The influence of modern technology on the student learning experience in higher education is influenced by a variety of contextual elements. These include technological progress, globalisation and digitization, a change in teaching methodology, diversity in learning requirements, accessibility and equity issues, evolving workforce requirements, and policy and institution initiatives. The implementation of digital learning technologies has been accelerated by the COVID-19 outbreak. Consequently, I firmly believe that a comprehensive understanding of these elements is necessary to assess the challenges and consequences of technology integration in modern education.  To synthesise the literature , I will use Meta-data-analysis because it compares individual studies with other relevant research projects to generate integrative and critical evaluations of a domain. It is a broad class of meta-level research that includes various approaches to synthesize research for integrative knowledge. Meta-data-analysis mainly involves evaluating multiple studies, their similarities and discrepancies, reliability, validity, quality, utility, scope, and assumptions of data-analytic procedures (Edwards, 2014). |
| 4. | **How did you locate and select sources for inclusion in the review?**  Journal articles, Books, and e-Books, publications, government publications and reports, conference proceedings, and existing literature will be used. Google scholar, Research Gate, ProQuest, Semantic Scholar, and other research search engines will be used. The sources will be from the past 5 years, from 2018-2023 with keywords mainly composed of: “Technology in education” “Student Learner experiences” AND “Technology, “Education 4.0” “EdTech”, Education technology” “Smart Campus” |
| 5. | **How is your review structured?**  The text discusses the significance of technology in higher education, its historical context, theoretical frameworks, types of modern technologies, impact on student engagement and motivation, challenges and solutions, students' perceptions and experiences, academic outcomes and performance, digital inclusivity and ethical considerations. It also predicts future trends in educational technology and provides recommendations for institutions, policymakers, educators, and researchers. The conclusion suggests areas for future research and exploration in the field. |
| 6. | **What are the main findings in the literature on this topic?**  Some of the main findings are:   * Modern technology enhances student engagement and interactivity, improves access to learning resources, and allows for personalized learning. * Integration of technology equips students with digital literacy skills. * Online learning platforms facilitate flexible learning environments. * Challenges related to digital inclusivity persist. * Effective technology integration requires faculty training and ongoing support. * Students perceive technology integration positively, but there are concerns about overreliance on technology and lack of face-to-face interactions. |
| 7. | **What are the main strengths and limitations of this literature?**  This review offers an in-depth analysis of the implications of modern technology for the student learning experience in higher education. It evaluates the challenges posed by technology integration, takes into account the perspectives of students, and evaluates future trends. It is subject to a number of limitations, such as geographical limitations, publication biases, variability in methodology, restricted primary research, an assumption of uniformity, and an over-emphasis of positive findings. It adopts a multi-disciplinary approach, taking into account historical, educational, socio-cultural, and institutional contexts, and the theoretical frameworks such as UTAUT (UTAUT), TAM (TAM), and TPACK (TPACK). Critical assessments of challenges include digital inclusion, ethical considerations, and faculty readiness. This forward-looking perspective increases the relevance of the review and its practical implications. It is essential to stay abreast of the latest literature in order to ensure a comprehensive analysis. |
| 8. | **Are there any discrepancies in this literature?**  Some of the research has variations in research methodologies, sample characteristics, contextual differences, temporal changes, publication bias, and interpretational differences. Studies with positive or statistically significant results are more likely to be published, leading to a potential bias in the literature. Recent studies incorporate advanced tools and pedagogies, such as assistive technologies and Education 4.0 concept. |
| 9. | **What conclusions do your draw from the review? What do you argue needs to be done as an outcome of the review?**   * Longitudinal studies should be carried out to track the long-term effects of technology integration on student learning experiences. * Comparative studies should be done to compare traditional and technology-enhanced methods. Context-specific research should be done that will consider cultural differences, institutional policies, and resource availability. * Mixed-methods research should be done to combine qualitative and quantitative data. * Inclusive research is also very important which I did not see much literature on as it considers diverse student populations and promotes inclusivity in higher education, for example inclusivity of students with disabilities or requiring special needs in education. |

\* As with other sets of guiding questions in this book, select those questions that are relevant to your context, add others as appropriate, and decide the order in which you will address them to communicate effectively with your audience.

*Source*: Healey, M., Matthews, K., & Cook-Sather, A. (2020) *Writing about learning and teaching in higher education: Creating and contributing to scholarly conversations**across a range of genres*. Center for Engaged Learning Open-Access Books, Elon University. 142-152.

References

Edwards, M.G. (2014) Meta-Data-Analysis. Encyclopedia of Quality of Life and Well-Being Research. *Springer, Dordrecht*. Available from: <https://doi.org/10.1007/978-94-007-0753-5_3376> [Accessed 04 October 2023].