

Implementation of E-learning

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Course: MSc Cyber Security

Module: Research Methods And Professional Practice

Summative: Research Proposal Presentation

Topic: The Implementation of E-Learning

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Slides shortcuts:

1 - 2 Introduction • 3 - 5 Research problems, questions, aims and objectives.

6 - 8 Literature reviews • 9 - 10 Methodology • 11 - Ethical consideration

12 – timeline • 13 - 15 References & thank you.

Total Presentation time: 15min



Introduction

- Every job requires training to learn or teach survival skills (Mourshed et al. 2014).
- The online platform grew from an assignment issuance and submission platform to real school scenarios.
- Online platform making the learning process faster and easier (Mayes and De Freitas, 2007).
- Investigates the advancement in the implementation of e-learning in tertiary institutions



Research Problem

- E-learning presents a solution to solve the higher financial burden.
- Institutions lacked the technical and financial capacities to run the programme (Aini et al., 2020).
- During the pandemic hindered the chances for students to continue learning physically (Radha et al., 2020).
- Pandemic pushed institutions to fasten their online learning implementation.



Research Questions

- What factors contributed to faster e-learning adoption and implementation, especially during the pandemic?
- What challenges hamper the implementation of e-learning?
- Are there existing solutions to the challenges hampering implementation of the e-learning?



Aims and Objectives

- To establish factors contributing to faster e-learning adoption and implementation, especially during the pandemic.
- To establish the issues that hamper the e-learning implementation.
- To establish the existing solutions to the challenges hampering implementation of the e-learning.



Literature Review

- *Factors*

- High operational costs that restricted alternative investments in e-learning.
- learning institutions had reduced earnings (Nabukeera, 2020).
- Grounds for the development of online training systems.
- In contrast, the second view pushed the institutions to a low-income state, thus spurring innovation to collect more income.



Literature Review *-Challenges*

- Initial costs may involve employing web designers and upgrading servers (Chang, 2016; Klašnja-Milićev et al., 2017).
- Changing learning techniques presents a challenging change (Parlakkiliç, 2017).
- Students and teachers may also lack the technological skills (Koob et al., 2021).
- limited internet access for poor families (Shahmoradi et al. 2018; Aljaber 2018; Alipio 2020)



Literature Review - *Solutions*

- Adopting e-learning to increase the student population by reducing tuitions payment (Arnaudova et al. 2016)
- Combine physical and e-learning for some subjects(Siemens 2015; Hermawan 2021).
- Students can undertake the theory-based lectures via virtual classes (Bylieva et al. 2019; Borba et al. 2015).
- Free internet in the school or hostel environs
- Further research to improvise working solutions to advance e-learning.



Methodology

- This study will target the university population.
- The study will engage 300 participants.
- Google forms will be used as questionnaires for the study (Sabrina 2021).
- Quantitative and qualitative details.
- Journal articles, books and previous studies will provide supportive secondary information for this study.



Methodology (Cont.)

- Analyse e-learning advancement in tertiary institutions while maximising existing technologies.
- Establish the existing solutions to the challenges hampering e-learning.
- The surveys will be done via Google Forms, and they will be anonymised.
- Collected data will be synthesised and analysed using SPSS (McCormick & Salcedo, 2017).
- Analysing data will provide information relevant for developing meaningful inferences.



Ethical Considerations and Risk Assessment

- The researcher will obtain a concession from the course department.
- Online questionnaires will also be consistent, thus attaining reliability (Greenfield & Greener, 2016).
- Further, questionnaires with blanks will be eliminated to ensure reliability.
- There will be no risks in participating in the survey.



Timeline of proposed activities

Month Activity	June				July				August				September				October			
	<i>Wk 1</i>	<i>Wk 2</i>	<i>Wk 3</i>	<i>Wk 4</i>	<i>Wk 1</i>	<i>Wk 2</i>	<i>Wk 3</i>	<i>Wk 4</i>	<i>Wk 1</i>	<i>Wk 2</i>	<i>Wk 3</i>	<i>Wk 4</i>	<i>Wk 1</i>	<i>Wk 2</i>	<i>Wk 3</i>	<i>Wk 4</i>	<i>Wk 1</i>	<i>Wk 2</i>	<i>Wk 3</i>	<i>Wk 4</i>
Proposal Writing																				
Proposal presentation																				
Literature review																				
Preparing and testing data collection tools																				
Data collection																				
Data Analysis																				
Report writing																				
Submission of 1 st draft, and corrections																				
Submission of final research paper																				



References

- Adeoye, I.A., Adanikin, A.F. and Adanikin, A., 2020. COVID-19 and E-learning: Nigeria tertiary education system experience. https://link.springer.com/chapter/10.1007/978-3-030-76346-6_8
- Aini, Q., Budiarto, M., Putra, P.O.H. and Rahardja, U., 2020. Exploring e-learning challenges during the global COVID-19 pandemic: A review. *Jurnal Sistem Informasi*, 16(2), pp.57-65. <https://jsi.cs.ui.ac.id/index.php/jsi/article/view/1011/408>
- Alipio, M., 2020. Education during COVID-19 era: Are learners in a less-economically developed country ready for e-learning?. <http://hdl.handle.net/10419/216098>
- Aljaber, A., 2018. E-learning policy in Saudi Arabia: Challenges and successes. *Research in Comparative and International Education*, 13(1), pp.176-194. <https://journals.sagepub.com/doi/full/10.1177/1745499918764147>
- Almaiah, M.A., Al-Khasawneh, A. and Althunibat, A., 2020. Exploring the critical challenges and factors influencing the E-learning system usage during COVID-19 pandemic. *Education and information technologies*, 25(6), pp.5261-5280. <https://link.springer.com/article/10.1007/s10639-020-10219-y>
- Amarneh, B.M., Alshurideh, M.T., Al Kurdi, B.H. and Obeidat, Z., 2021, June. The Impact of COVID-19 on E-learning: Advantages and Challenges. In *The International Conference on Artificial Intelligence and Computer Vision* (pp. 75-89). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-030-76346-6_8
- Amaudova, V., Terzieva, T. and Rahnev, A., 2016. A methodological approach for implementation of adaptive e-learning. In *CBU International Conference Proceedings...* (Vol. 4, p. 910). Central Bohemia University. <https://pdfs.semanticscholar.org/8e82/db15fb405b8fb31070050f3fb1d1308a5f9f.pdf>
- Ayu, M., 2020. Online learning: Leading e-learning at higher education. *The Journal of English Literacy Education: The Teaching and Learning of English as a Foreign Language*, 7(1), pp.47-54. <https://ejournal.unsri.ac.id/index.php/jenglish/article/view/11515>
- Borba, M.C., Askar, P., Engelbrecht, J., Gadanidis, G., Llinares, S. and Aguilar, M.S., 2016. Blended learning, e-learning and mobile learning in mathematics education. *ZDM*, 48(5), pp.589-610. <https://link.springer.com/article/10.1007/s11858-016-0798-4>
- Bylieva, D., Lobatyuk, V., Safonova, A. and Rubtsova, A., 2019. Correlation between the Practical Aspect of the Course and the E-Learning Progress. *Education sciences*, 9(3), p.167. <https://doi.org/10.3390/educsci9030167>
- Chang, V., 2016. Review and discussion: E-learning for academia and industry. *International Journal of Information Management*, 36(3), pp.476-485. <https://doi.org/10.1016/j.ijinfomgt.2015.12.007>
- Friga, Paul N. "Under Covid-19, university budgets like we've never seen before." *The Chronicle of Higher Education* 20 (2020).
- Giatman, M., Siswati, S. and Basri, I.Y., 2020. Online learning quality control in the pandemic Covid-19 era in Indonesia. *Journal of Nonformal Education*, 6(2), pp.168-175.
- Greenfield, T. and Greener, S. eds., 2016. *Research methods for postgraduates*. John Wiley & Sons.
- Hanushek, E.A. and Woessmann, L., 2021. Education and economic growth. In *Oxford Research Encyclopedia of Economics and Finance*. <https://doi.org/10.1093/acrefore/9780190625979.013.651>
- Hermawan, D., 2021. The rise of e-learning in covid-19 pandemic in private university: challenges and opportunities. *IJORER: International Journal of Recent Educational Research*, 2(1), pp.86-95. <https://journal.ia-education.com/index.php/ijorer/article/view/77>



References (Cont.)

- Humphry, J., 2019. 'Digital First': homelessness and data use in an online service environment. *Communication Research and Practice*, 5(2), pp.172-187. <https://doi.org/10.1080/22041451.2019.1601418>
- Klačnja-Milićević, A., Vesin, B., Ivanović, M., Budimac, Z. and Jain, L.C., 2017. Introduction to E-learning systems. In *E-Learning Systems* (pp. 3-17). Springer, Cham. https://link.springer.com/chapter/10.1007/978-3-319-41163-7_1
- Koob, C., Schröpfer, K., Coenen, M., Kus, S. and Schmidt, N., 2021. Factors influencing study engagement during the COVID-19 pandemic: A cross-sectional study among health and social professions students. *Plos one*, 16(7), p.e0255191.
- Maatuk, A.M., Elberkawi, E.K., Aljawarneh, S., Rashaideh, H. and Alharbi, H., 2022. The COVID-19 pandemic and E-learning: challenges and opportunities from the perspective of students and instructors. *Journal of Computing in Higher Education*, 34(1), pp.21-38. <https://link.springer.com/content/pdf/10.1007/s12528-021-09274-2.pdf>
- Maheshwari, G., 2021. Factors affecting students' intentions to undertake online learning: an empirical study in Vietnam. *Education and Information Technologies*, 26(6), pp.6629-6649. <https://link.springer.com/article/10.1007/s10639-021-10465-8>
- Mayes, T. and De Freitas, S., 2007. Learning and e-learning. *Rethinking pedagogy for a digital age*, pp.13-25.
- McCormick, K. and Salcedo, J., 2017. *SPSS statistics for data analysis and visualization*. John Wiley & Sons.
- Mourshed, M., Patel, J. and Suder, K., 2014. Education to employment: Getting Europe's youth into work. McKinsey & Company. <https://www.partners4value.it/wp-content/uploads/2015/10/Education-to-employment-Getting-Europes-youth-into-work.pdf>
- Nabukeera, M.S., 2020. COVID-19 and online education during emergencies in higher education. <http://ir.iui.ac.ug/xmlui/handle/20.500.12309/732>
- Parlakkiliç, A., 2017. Change management in transition to e-learning system. *Qualitative and Quantitative Methods in Libraries*, 3(3), pp.637-651.
- Radha, R., Mahalakshmi, K., Kumar, V.S. and Saravanakumar, A.R., 2020. E-Learning during lockdown of Covid-19 pandemic: A global perspective. *International journal of control and automation*, 13(4), pp.1088-1099.
- Sabrina, H., 2021. The Online Questionnaire: General Guidelines. <http://dSPACE.centre-univ-mila.dz/jspui/handle/123456789/1556>
- Shahmoradi, L., Changizi, V., Mehraeen, E., Bashiri, A., Jannat, B. and Hosseini, M., 2018. The challenges of E-learning system: Higher educational institutions perspective. *Journal of education and health promotion*, 7. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6149121/>
- Siemens, G., 2015. Preparing for the digital university: A review of the history and current state of distance, blended, and online learning. <http://linkresearchlab.org/PreparingDigitalUniversity.pdf>
- Siron, Y., Wibowo, A. and Narmaditya, B.S., 2020. Factors affecting the adoption of e-learning in Indonesia: Lesson from Covid-19. *JOTSE: Journal of Technology and Science Education*, 10(2), pp.282-295. <https://upcommons.upc.edu/bitstream/handle/2117/334777/1025-4218-1-PB.pdf?sequence=1&isAllowed=y>



Thank You

