

THE IMPACT OF THE ADOPTION OF HUMAN COMPUTER INTERACTION PRINCIPLES ON THE USAGE OF LEARNING MANAGEMENT SYSTEM BY THE UNDERGRADUATES IN RAJARATA UNIVERSITY OF SRI LANKA

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ABSTRACT

This study investigates the impact of adapting Human-Computer Interaction (HCI) principles on the usage of the Learning Management System (LMS) by undergraduates at Rajarata University of Sri Lanka. The research focuses on key HCI principles—consistency, flexibility, readability, learnability, and minimalism—to understand their influence on user experience and engagement. Using quantitative methodology, data were collected through structured questionnaires distributed to a sample of 366 undergraduates selected via random sampling. The findings reveal that HCI principles significantly enhance the usability and effectiveness of LMSs. Consistency and readability were pivotal in improving user satisfaction, whereas flexibility and learnability facilitated better engagement and ease of use. Minimalism contributes to a more efficient user interface, reduced cognitive load, and enhanced overall user experience. This study provides valuable insights for educational institutions that aim to optimize their LMS platforms. By integrating HCI principles into LMS design, universities can improve student satisfaction and engagement, thereby enhancing their overall learning experience. This study contributes to the broader discourse on educational technology, and offers practical recommendations for developing user-centric LMS systems.

Keywords: Educational technology, human-computer interaction (HCI), learning management system (LMS), Rajarata University of Sri Lanka, user experience, usability