

Needs Analysis for Effective Implementation of Adaptive Personalised e-Learning in Higher Education: The Case of The Maldives National University

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Abstract:

The concept of e-learning has evolved significantly, and the advancement brings us towards adaptivity based inventions that are more advanced learning systems. These adaptive personalised learning environments (ALE) that integrate a generalised adaptive content presentational approach to address varying characteristics of learners has become an utmost need of the time for improving learning among the learners of the 21st century. E-learning systems that lack an environment with adaptive features that provide only the same materials to all students and do not consider their needs or abilities are considered a failure. While adaptive learning is emerging as a promising technology to promote access and quality at a large scale in higher education, the implementation of adaptive learning in teaching and learning is still sporadic, and it is unclear how to best design and teach an adaptive learning course in a higher education context. Therefore, in order to determine an effective approach to design and develop such an adaptive personalised e-learning environment, this study formulates the initial step of needs analysis contextualised to the Maldives National University (MNU). This analysis is guided by the integrated frameworks of Activity Theory (AT) and Personalised Learning Design Framework (PLDF). The outcomes will allow the researcher to identify the current practices and what are the needs to address in designing and developing an adaptive learning environment with effective personalised learning approaches in the e-learning delivery of MNU.

Keywords:

personalised learning, adaptive learning, e-learning