



Critical Success Factors for Online Distance Learning in Higher Education: A Review of the Literature

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ABSTRACT

The aim of this paper is to specify the Critical Success Factors (CSFs) for Online Distance Learning (ODL) in Higher Education (HE). Research methodology was analyzing and synthesizing the literature review. The literatures were reviewed to determine items relevant to online learning success as implementation, criteria and indicator. A total of 19 papers, published during 2000-2012, were selected from Chulalongkorn University reference databases. Data analysis method was using one of the popular analysis techniques for qualitative research works or the content analysis. The results on the CSFs for ODL can be grouped into 5 factors: (1) institutional management, (2) learning environment, (3) instructional design, (4) services support and (5) course evaluation. Each of these 5 factors includes several important elements that can assist to enhance efficiency of online learning courses in higher education institutions. It is a concrete approach to lead functions of an online institute or course in all levels to the same directions for achieving the success of the institute's vision, and make staffs and executives know what they have to do for the success of online distance learning.

KEYWORDS

Critical Success Factor; Online Learning; Distance Education; Higher Education

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References

- [1] Allen, I. E. & Seaman, J. (2005). Growing by Degrees: Online education in the United States, 2005. The Sloan Consortium. URL (last checked 17 June 2012) http://sloanconsortium.org/publications/survey/growing_by_degrees_2005
- [2] Amberg, M., Fischl, F. & Wiener, M. (2005). Background of critical success factor research. Friedrich-Alexander-Universitat Erlan-gen-Nurnberg Working, Paper No 2/2005. Nurnberg, Germany.
- [3] Arabasz, P. & Bake, M.B. (2003). Evolving campus support models for e-Learning courses. ECAR Respondent Summary, March 2003. URL (last checked 28 Dec 2011) <http://net.educause.edu/ir/library/pdf/EKF/ekf0303.pdf>
- [4] Bacsich, P., Bastiaens, T. & Bristow, S.F. (2009). Reviewing the virtual campus phenomenon: The rise of large-scale e-Learning initiatives worldwide. Heverlee: EuroPACE ivzw. URL (last checked 19 Jan 2012) <http://revica.europace.org/Re.ViCa%20Online%20Handbook.pdf>
- [5] Bates, T. (2001). National strategies for e-learning in postsecondary education. Paris: UNESCO: International Institute for Educational Planning. URL (last checked 17 Jan 2012) <http://unesdoc.unesco.org/images/0012/001262/126230e.pdf>
- [6] Bruno, A.V. & Leidecker, J.K. (1984). Identifying and using critical success factors. *Long Range Planning*, 17, 23-32.
- [7] Bhuasiri, W.; Xaymoungkhoun, O.; Zo, H. & Rho, J. (2012). Critical success factors for e-learning in developing

- [8] Catherall, P. (2005). *Delivering e-learning for information services in higher education*. Chandos Publishing: Oxford.
- [9] Chantanarungpak, K. (2010). *Development of success indicators of e-Learning system for higher education institutions in Thailand*. Ph.D. Thesis, Bangkok: Chulalongkorn University.
- [10] Charmonman, C. (2006). *Growing by degrees online education in the United State, 2005*. Bangkok, Assumption publishing.
- [11] Cruz, A. & Implementation and Support Manager. (2010). Key success factors for eLearning implementation resulting from proper planning. URL (last checked 31 Dec 2011) <http://www.shiftelearning.com/key-success-factors-for-elearning-implementation-resulting-from-proper-planning/>
- [12] Esteves, J. (2004). *Definition and analysis of critical success factors for ERP implementation projects*. Doctoral Thesis at the Universitat Politècnica de Catalunya, Barcelona.
- [13] European Association for Quality Assurance in Higher Education (ENQA). (2005). *Standards and Guidelines for Quality Assurance in the European Higher Education Area*.
- [14] Freund, Y.P. (1988). Critical success factors. *Planning Review*, 16(4), 20-25.
- [15] Govindasamy, T. (2002). Successful implementation of e-Learning: Pedagogical considerations. *The Internet and Higher Education*, 4(3-4), 287-299.
- [16] Harasim, L. (2003). *Elearning communities of practice for teachers*. In the electronic classroom of tomorrow. Columbus, Ohio: EOS Publishing.
- [17] Ingram, H., Biermam, K., Cannon, J., & Niel & Waddle, C. (2000). Internalizing action learning: a company perspective. Establishing critical success factors for action learning courses. *International Journal of Contemporary Hospitality Management*, 12(2), 107-113.
- [18] Khan, B.H. (2001). *A framework for web-based learning*. New Jersey, USA: Educational Technology Publication, Englewood Cliffs.
- [19] Kocur, D., & Kosc, P. (2009). E-learning implementation in higher education. *Acta Electronica et Informatica*, 9(1), 20-26.
- [20] Lee, Y. C. (2008). The role of perceived resources in online learning adoption. *Computers & Education*, 50(4), 1423– 1438.
- [21] Lincharearn, A. (2012). Qualitative data analysis techniques. *Journal of Educational Measurement*, Faculty of Education, Naresuan University, 17(1), July 2012, 17-29.
- [22] Malithong, K. (2005). *Technology and Communication for Education*. Bangkok, Aroon printing.
- [23] Masrom, M., Zainon, O. & Rahiman, R. (2008). E-learning critical success factors: institutional and technological aspects. *E-Learning Issues in Malaysian Higher Education*, 49-63.
- [24] Moore, J.L; Deane, C.D. & Galyen, K. (2011). e-Learning, online learning, and distance learning environments: Are they the same?. *Internet and Higher Education*, 4, 129-135.
- [25] Moore, M.G. & Kearsley, G. (2005) *Distance education. A systems view*. Belmont, CA: Wadsworth.
- [26] Mosakhani, M. & Jamporazmey, M. (2010). Introduce Critical Success Factors (CSFs) of elearning for Evaluating e-Learning Implementation Success. *International Conference on Educational and Information Technology*, V1-224-V1-228.
- [27] Musa, M.A. & Othman, M. S. (2012). Critical success factor in e-Learning: an examination of technology and student factors. *International Journal of Advances in Engineering & Technology*, 3(2), 140-148.
- [28] Niagara College Canada. (2012). *Continuing education online/ distance learning*. Southern Ontario (Niagara Region), Canada. URL (last checked 7 Nov 2012) <http://www.niagaracollege.ca/content/ContinuingEducation/OnlineLearning/WelcometoCEOnlineLearning.aspx>
- [29] Nida. (2011). *Case Study Implementing e-Learning at Nida*. URL (last checked 26 Jan 2012) <http://y30.wikidot.com/scribe-book-9-4:case-study-implementing-e-learning-at-nida>
- [30] Oneill, K.; Singh, G. & Donoghue, J. (2004). Implementing eLearning Programmes for Higher Education: A Review of the Literature. *Journal of Information Technology Education*, 3, 313-323.

- [31] Ozkan, S., & Koseler, R. (2009). Multi-dimensional students' evaluation of e-learning systems in the higher education context: an empirical investigation. *Computers & Education*, 53(4), 1285–1296.
- [32] Papp, R. (2000). Critical success factors for distance learning. Paper presented at the Americas Conference on Information Systems. Long Beach, California, USA.
- [33] Pawlowski, J. M. (2002). Reusable Models of Pedagogical Concepts - a Framework for Pedagogical and Content Design. In *Proceedings of ED-MEDIA 2002, World Conference on Educational Multimedia, Hypermedia & Telecommunications*.
- [34] Penn State. (2008). Penn State Quality Assurance e-Learning Design Standards. *Web Learning @ Penn State*, 1-11. URL (last checked 23 April 2012) <http://www.sc.edu/cte/larryragan/doc/designstandards.pdf>
- [35] Phillips, M. R., & Peters, M. J. (1999). Targeting rural students with distance learning courses: A comparative study of determinant attributes and satisfaction levels. *Journal of Education for Business*, 74(6), 351-356.
- [36] Pinto, J. & Slevin, D. (1987). Critical Factors in Successful Project Implementation. *IEEE Transactions on Engineering Management*, 34(1), 22-27.
- [37] Puri, G. (2012). Critical success Factors in e-Learning – An empirical study. *International Journal of Multidisciplinary Research*, 2(1), 149-161.
- [38] Puteh, M. (2008). E-Learning Concepts and Literature Review. E-learning issues in Malaysia higher education. In Mohd Fuad Mohd Salleh (editor). *Universiti Teknologi Malaysia*, 1-22.
- [39] Rockart, J. (1979). Chief Executives Define Their Own Information Needs. *Harvard Business Review*. March/April 1979, 81-92.
- [40] Rudestam, K. E. & Schoenholtz read, J. (2010). Chapter 7 Globalization in Online Learning, American Distance Education Consortium (ADEC) and Sloan-C Quality Factors and Use of Online Learning as Strategies Asset. *Handbook of Online Learning*. (2nd Edition). SAGE Publications, Inc., 187.
- [41] Selim, H. M. (2005). E-Learning Critical Success Factors: An Exploratory Investigation of Student Perceptions. *Proceedings of Information Resources Management Association International Conference, USA*, 340-346.
- [42] Selim, H. M. (2007). Critical success factors for e-learning acceptance: Confirmatory factor models. *Computers & Education*, 49(2), 396–413.
- [43] Vate-U-Lan, P. (2007). Readiness of eLearning Connectivity in Thailand. *Fourth International Conference on eLearning for Knowledge-Based Society*, November 18-19, 2007, Bangkok, Thailand, 21.1-21.7.
- [44] Volery, T. & Lord, D. (2000). Critical success factors in online education. *The International Journal of Educational Management*, 14(5), 216-223.
- [45] Wands, M. & Blanc, A.L. (2001). Critical Success Factors: eLearning Solutions. 2(3), URL (last checked 9 June 2012) http://www.internettime.com/itimegroup/crit_capp.htm

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