

August 2025: Top 10 Read Articles in Integrating Technology in Education

**International Journal on Integrating
Technology in Education (IJITE)**

ISSN: 2320 - 1886(Online; 2320 - 3935(Print)

<http://airccse.org/journal/ijite/home.html>

AN INVESTIGATION INTO THE EFFECTIVENESS OF THE CURRICULUM AND ASSESSMENT POLICY STATEMENT (CAPS) IN SOUTH AFRICAN SCHOOLS

Tinuade Adekunbi Ojo¹ and Refentse Mathabathe²

¹Department of Political Sciences and International Relations, University of Johannesburg. Johannesburg, South Africa. ORCID-0000-0002-5924-3424, Researcher ID- P-2812-2017.

²Ahube Valley Ext 3 3891 Khomotso Street 0122.

ABSTRACT

The paper presents the findings from current research on the impact that the Curriculum and Assessment Policy Statement (CAPS) curriculum subjects have on two South African Schools in Gauteng province in South Africa. The aim is to present the impact of the CAPs subjects in the school. The study did a critical evaluation of each subject to elaborate on the importance and challenges in implementing the subjects and using a qualitative research method to collect data on a group of teachers and students on their opinion on the impact of CAPs subjects. The findings suggest that even though the curriculum is effective, it needs to be improved to close the gap between public and private schools. Private schools are currently benefiting the most from the subjects and how the curriculum is structured.

KEYWORDS

CAPS Subjects, Public and Private Schools, Primary and High School, Department of Basic Education

For More Details: <https://aircconline.com/ijite/V10N2/10221ijite03.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol10.html>

REFERENCES

- [1] Ramrathan, L. (2015). SA's school journey. Available from: <https://www.iol.co.za/dailynews/opinion/sas-school-journey-1806392> [Accessed 22 Mar 2020]
- [2] Department of Basic Education (2019) National Curriculum Statements (NCS) Grades R-12, [online] Available from: <http://ncdoe.ncpg.gov.za/Images/Media/Policies/NATIONAL%20CURRICULUM%20STATEMENT.pdf> [Accessed 22 Mar 2020]
- [3] Department of Basic Education (2019) Subject choice and career pathing, [online] Available from: <https://www.education.gov.za/Informationfor/Learners/SubjectChoiceandCareerPathing/tabid/980/Default.aspx> [Accessed 05 Apr 2020]
- [4] Adams, J.B. (2014) 'The statesman of education, science and technology, South African Journal of Science, 110 (n), 1-2.
- [5] News24 archives (2015) Caps curriculum meant more work-academic, [online] Available from: <https://www.news24.com/News24/caps-curriculum-meant-more-work-academic-20150106> [Accessed 22 Mar 2020]
- [6] Gina, N. (2017) CAPS evaluation; Africa Languages introduction: DBE briefing, Parliamentary Monitoring Group. [online] Available from: <https://pmg.org.za/committee-meeting/24054/> [Accessed 22 Mar 2020]
- [7] Wilmot, Di. & Irwin, Pat. (2015) 'South African Teachers' Perceptions of the Primary Geography Curriculum: An Exploratory Study, Rige, 5 (2), 141-142
- [8] Gina, N. (2018) History as a compulsory subject; Rural Education Draft Policy: with Deputy Minister, Parliamentary Monitoring Group. [online] Available from: <https://pmg.org.za/committeemeeting/26856/> [Accessed 03 May 2020]
- [9] Herald, G. (2020) Clarity on IEB curriculum. Available from: <https://www.georgeherald.com/news/News/General/91728/Clarity-on-IEB-curriculum> [Accessed 10 Jul 2020]
- [10] School Advisor (2018) The Difference Between Public Schools and Private Schools, [online] Available from <https://schooladvisor.my/articles/difference-public-schools-private-schools> [Accessed 10 Jul 2020]
- [11] Lesufi, P. (2016) Science and technology are keys to SA's future, [online] Available from <https://www.iol.co.za/business-report/opinion/science-and-technology-are-keys-to-sas-future2020135> [Accessed 04 May 2020]
- [12] C&A Friedlander Attorneys (2016) Differences Between Public and Private Schools in South Africa, [online] Available from: <https://caf.co.za/tag/private-school/> [Accessed 10 Jul 2020]
- [13] Writer, S. (2018) School pass marks in South Africa vs. the rest of the world, Business Tech Available from: <https://businesstech.co.za/news/lifestyle/231111/school-pass-marks-in-south-africa-vs-the-rest-of-the-world/> [Accessed 22 Mar 2020]
- [14] South African Government News Agency (2017) Basic Education sets record straight on pass requirements. Available from: www.sanews.gov.za/south-africa/basic-education-sets-record-straight-pass-requirements [Accessed 22 Mar 2020]
- [15] Department of Basic Education (2020) National Curriculum Statement (NCS), Curriculum and Assessment Policy Statement Grades 10-12: FET Grade 10-12 CAPS Amendments, Pretoria, Government Printing Works.
- [16] Sileyew, K.J. (2019) Research Design and Methodology, London, IntechOpen Limited.
- [17] Sacred Heart University (2020) Organizing Academic Research Papers: Theoretical Framework. Available from: <https://library.sacredheart.edu/c.php?g=29803&p=185919> [Accessed 21 Nov 2020].
- [18] Ames, H., Glenton, C., & Lewin, S. (2019) 'Purposeful sampling in a qualitative evidence synthesis: a worked example from a synthesis on parental perception of vaccination communication', BMC Medical Research Methodology, 19 (26), 2-9.
- [19] Mthantado, S. (2018) Basic education is failing the economy. Mail & Guardian. Available from: <https://mg.co.za/article/2018-11-23-00-basic-education-is-failing-the-economy/> [Accessed 05 Apr 2020]
- [20] Citizens Information (2016) Curriculum in primary schools. Available from: https://www.citizensinformation.ie/en/education/primary_and_post_primary_education/going_to_primary_school/curriculum_in_national_schools.html [Accessed 05 Apr 2020]
- [21] Stoop, C. (2017) 'Children's Rights to Mother-Tongue Education in a Multilingual World: A Comparative Analysis between South Africa and Germany', PER/ PELJ, (20), 3-13
- [22] Manyike, T.V. & Lemmer, E.M. (2014) 'Research in Language Education in South Africa: Problem & Prospects', Mediterranean Journal of Social Sciences, 5 (8), 253-256
- [23] Embury (2018) The increased need for physical education in today schools, [online] Available from <https://stadio.ac.za/faculty-education/school-education> [Accessed 05 May 2020].
- [24] Fridie, A. (2016) What does my matric mark mean?, [online] Available from <https://www.news24.com/parent/learn/freeexamresources/matric-past-exam-papers/what-is-a-matricpass->

20160106 [Accessed 22 Mar 2020]

- [25] Makatu, T. (2019) Life Orientation- An important but neglected school subject. Available from: <https://Makatu/@ttmakatu/what-is-life-orientation-b433f58c00cf> [Accessed 06 May 2020]
- [26] Nwosu, L., Bechuke, A., Moorosi, P. (2018) 'Towards an Effective Management on the Teaching and Learning of Accounting in Secondary Schools', British Journal of Research, 5 (1), 38.
- [27] Wilmot, Di. & Irwin, Pat. (2015) 'South African Teachers' Perceptions of the Primary Geography Curriculum: An Exploratory Study', Rige, 5 (2), 141-142
- [28] Zingiswa, J. (2019) Mathematics Education System in South Africa, London, IntechOpen Limited.
- [29] Moodle (2019). Curriculum Theory, [online] Available from: https://docs.moodle.org/310/en/Curriculum_theory [Accessed 22 Nov 2020]
- [30] Maharajh, L.R., Nkosi, T., Mkhize, M.C. (2016) 'Teacher's Experiences of the Implementation of the Curriculum and Assessment Policy Statement (CAPS) in Three Primary Schools in KwaZulu Natal', Research Gate, 4 (3): 371-375.

AUTHORS

Dr Tinuade Adekunbi Ojo is a Post-Doctoral Research Fellow in University of Johannesburg. A research specialist in social sciences, specifically involved in higher educational debates, political economic debates, gender and development studies, public policy and international relations, research methodology theories, human rights and sustainable development, poverty and social inequalities/stratification. An author of academic and contemporary books, she has presented and published several articles in scientific journals.



Refentse Mathabane is a graduate of Marketing and Business Management. His Research interest lies in teaching and learning methodologies, market research, higher educational learning.



WHAT ARE THE ALTERNATIVE FUNCTIONS AND BENEFITS OF CELL PHONES FOR STUDENTS

David Blasco

Department of Education, 國立中正大學, Jia Yi, Taiwan

ABSTRACT

Taiwanese College students bring their own cell phones in the English classroom and teachers may become overwhelmed with these technology trends. This study aims to provide a realistic perception of the hidden meanings of the use of mobile devices in English class settings and the benefits it can bring to the students. For this purpose, two conventional classes of fourth year license degree in the Department of Travel Management were the respondents. The students' schooling experiences were clarified with a student satisfaction questionnaire, their values highlighted with an interview, and their social interactions explained with observations of the two classes. The results of this study show that, even though they were not used to working collaboratively in small team-work groups, Taiwanese students were highly likely to develop a collaborative learning style that utilizes emails and internet connections matching their learning needs and motivations and optimizing their academic success.

KEYWORDS

Technology, cell phones, emails, collaborative learning, internet connections.

For More Details: <http://aircconline.com/ijite/V5N4/5416ijite01.pdf>

Volume Link: <http://airccse.org/journal/ijite/vol5.html>

REFERENCES

- [1] Azad, A. A. (2013). Etiquette, E-etiquette and cell phone use in the classroom. *Issues for Information systems*, 14(2), 452-462.
- [2] Stephen, F., Bayless M.L., Clipson W.T., Wilson S.A. (2013). Faculty perceptions and policies of students' use of personal Technology in the classroom. *Business communication and Legal Studies*, 32, 118-136.
- [3] Bayless, M.I., Clipson, T.W., Wilson, S.A. (2013). Faculty Perception and Policies of Students' use of personal Technology in the classroom.
- [4] Agudo, M. & Dios, J.D. (2014). English as a foreign language teacher education: Current perspectives and challenges. Amsterdam: Rodopi, 364 pages.
- [5] Shih, J.L., Chuang, C.W., Hwang, G.J. (2010). An inquiry-based learning approach to Enhancing Social science learning effectiveness. *Educational Technology & Society*, 13(4), 50-62.
- [6] Bentley, A., Earls, M., O'Brian, M., J. (2011). I will have what she's having. *Mapping social Behavior*. London, England: MIT Press.
- [7] Papanikolao, K., Gouli, E. (2010). Collaboration as an opportunity for individual development. *International Conference on Intelligent Networking and Collaborative Systems*. Thessaloniki, Greece, pp.24-26.
- [8] Altun, M. (2015). The integration of technology into foreign language teaching. *International Journal on New Trends in Education and their Implications*, 6(1), 22-27.
- [9] Yesilyurt, M. E., Basturk, R., Yesilyurt, F., Kara, I. (2014). The Effect of Technological Devices on Student's Academic Success: Evidence from Denizli. *Journal of Internet Applications and Management*, 5(1), 39-47.
- [10] Morcol, G. (2012). A complexity theory for public policy. Routledge: New York.
- [11] Shyamlee, D., & Phil, D. (2012). Use of technology in English language teaching and learning: An analysis. 2012 International conference on language, Medias & Cultures. IACSIT Press, Singapore.
- [12] Fisher, R. & Ury, W. (2012). Getting to yes. Negotiating an agreement without giving in. Random House Business Book (3rd ed.): London.
- [13] Peleckis, K. (2013). International business negotiations: Culture, dimension, context. *International Journal of Business, Humanities and Technology*, 3(7), 91-99.
- [14] Carnevale, P.J., & Dreu, C. K. W. D. (2011). *Methods of Negotiation research: International negotiation*. Leiden Netherlands: Martinus Nijhoff.
- [15] Miangah, M.T., Nezarat, A. (2012). Mobile-Assisted Language learning. *International Journal of Distributed and Parallel Systems*, 3 (1), 309-319.
- [16] Ou, F.C. (2015). Using mobile devices to improve primary educational outcomes: an analysis in Primary education. *International Journal of Learning, Teaching and Educational Research*, 12(3), 28-45.
- [17] Al-Mohammadi, S., & Derbel, E. (2014). The effects of Embedding information Technologies within ELT on EFL learners' motivation and interests. *International Journal of Applied Linguistics & English Literature*, 3(1), 181-185.
- [18] Ogunduyile, A., O. (2013). Towards the integration of mobile phones in the teaching of English language in secondary schools in Akure, Nigeria. *Theory and Practice Language Studies* 3(7), 1149-1153.
- [19] Tai, Y., Ting, Y-L. (2011). Adoption of mobile technology for language learning: teacher attitudes and challenges. *Jaltcall journal* 7(1), pp.3-18.
- [20] Blasco, D. (2016). Students' attitudes toward integrating mobile technology into translation activities. *International Journal on Integrating technology in Education*, 5(1), 1-11.
- [21] Strauss, A., Corbin, J. (2015). *Basics of qualitative research: Grounded theory procedures and techniques* (4th ed.). Thousand Oaks CA: SAGE Publications.
- [22] Guest, G., S., Namey, E., E., & Mitchell, M.L. (2013). *Collecting qualitative data: A field manual for applied research*. Thousand Oak, CA: SAGE.
- [23] Arshad, M., Ramani, H. S., Kashif, N. U. (2014). Developing a reliable and valid questionnaire to measure students' satisfaction level on their courses experiences at University level in Pakistan. *Pensee Journal*, 77,3, p. 393-405. Retrieved from http://www.academia.edu/6765032/Reliability_and_validity_of_survey_questionnaire
- [24] Fanni, F. (2014). Confidence in technology use: The development and validation of a technological, edagogical, and content self-efficacy scale for teachers. Retrieved from <http://doc.rero.ch/record/210297/files/2014COM007.pdf>
- [25] Yau, H.K., & Cheng, A., L., F. (2013). Engineering students' grade level differences of Satisfaction in using technology for learning. *International Journal of Modern Education Forum*, 2(3), 66-70.

AUTHOR

I grew up and studied in the South of France and earned a bachelor degree in Marketing. While studying in France, I developed an early interest in international relations while learning English. I lived and worked in the United Kingdom for three years, and I moved to Taipei with my wife in 1999. Having a background in cultures of these countries, and being an independent user of the Chinese language as well, I have developed a curious mind regarding the teaching of English for Business Purposes. Due to this, while as I was working as an English and French and teacher in Taipei, I studied in both National Taiwan University of Science and Technology in the department of Applied Foreign Languages as well as National Taipei University, Global MBA program. As a lifelong learning project, I decided to pursue a PhD in education in 2012, at Chung Cheng University, located in Jia Yi. The purpose of my study is to earn a doctoral degree to support the teaching my business skills gained from NTU Global MBA program, which are relevant to the teaching of English for Business purpose to University students. My study at the Global MBA program combined with the teaching of foreign languages provided me with the opportunity to join Taipei college of Maritime technology, located in Tamsuei, and to gain my first experience at teaching English for commercial and leisure purposes. As I taught English for more than three years, I came to understand Chinese learners better and apply my learning in Applied Foreign Languages to develop teaching materials that were adapted to their learning styles.



SCHOOL MANAGEMENT INFORMATION SYSTEMS: CHALLENGES TO EDUCATIONAL DECISION MAKING IN THE BIG DATA ERA

Vivienne V. Forrester

College of Engineering and Computing, Nova Southeastern University, Fort Lauderdale, Florida,
United States of America

ABSTRACT

Despite the benefits of school management information systems (SMIS), the concept of data-driven school culture failed to materialize for many educational institutions. Challenges posed by the quality of data in the big data era have prevented many schools from realizing the real potential of the SMIS. The paper analyses the uses, features, and inhibiting factors of SMIS. The paper proposes a five-phase conceptual model that assist administrators with making timely, quality decisions. The paper enriches the theoretical landscape of SMIS usage in the era of big data and lays a foundation for the future by establishing an educational decision-making model.

KEYWORDS

School management information system, big data, educational decision-making, data-driven schools, educational model, student-information system.

For More Details: <https://aircconline.com/ijite/V8N1/8119ijite01.pdf>

Volume Link: <http://airccse.org/journal/ijite/vol8.html>

REFERENCES

- [1] Hinze-Pifer, Rebecca & Daniel S. Ramsey, (2011) "Evaluating Education Information Systems: Implementation of Longitudinal Student Data Systems in Six School Districts." *Policy Perspectives*, Vol. 18, No. 1, pp71-91.
- [2] Wiseman, Alexander W., and Petrina M. Davidson, (2018) "The Rhythmic Application of EvidenceBased Policy in National Educational Systems Worldwide." In *Cross-nationally Comparative, Evidence-based Educational Policymaking and Reform*, pp1-17. Emerald Publishing Limited.
- [3] Carnoy, Martin. (2004) "ICT in education: Possibilities and challenges." Inaugural lecture of the Universitat Oberta de Catalunya (UOC) 2004–2005 Academic Year, Barcelona.
- [4] Means, Barbara, Christine Padilla, Angela DeBarger, & Marianne Bakia, (2009) "Implementing DataInformed Decision Making in Schools: Teacher Access, Supports and Use." US Department of Education.
- [5] Cai, Li, & Yangyong Zhu, (2015). "The challenges of data quality and data quality assessment in the big data era." *Data Science Journal*, Vol.14.
- [6] Laudon, Kenneth C., & Jane P. Laudon, (2015). *Management Information Systems: Managing the Digital Firm Plus MyMISLab with Pearson eText--Access Card Package*. Prentice Hall Press.
- [7] Moshe, Telem, (1999) "A case study of the impact of school administration computerization on the department head's role." *Journal of Research on Computing in Education*, Vol. 31, No. 4, pp385-401.
- [8] New, Joshua, (2016) "Building a data-driven education system in the United States." Center for Data Innovation
- [9] McCrummen, Stephanie, (2010). "D.C. principal's hands-on tack transforms Sousa Middle but also ruffles feathers." *Washington Post*, June 7.
- [10] Shah, Madiha, (2014) "Impact of management information systems (MIS) on school administration: What the literature says." *Procedia-Social and Behavioral Sciences*, Vol. 116, pp2799-2804.
- [11] Katal, Avita, Mohammad Wazid, & R. H. Goudar, (2013) "Big data: issues, challenges, tools and good practices." In *2013 Sixth international conference on contemporary computing (IC3)*, pp404- 409. IEEE.
- [12] Gurr, D, (2000) "The impact of information and communication technology on the work of school principals." *Leading & Managing*, Vol. 6, No. 1, pp60-73.
- [13] Zavadsky, Heather, (2009) "Building data-driven district systems." *Handbook of data-based decision making in education*, pp173-190.
- [14] Bernhardt, Victoria L, (2005) "Data tools for school improvement." *Educational Leadership* Vol. 62, No. 5 pp66-69.
- [15] Starkie, Babara, (2013) "Data sharing through parent portals: An exploration of parental motivation, data use, and the promise of prolonged parental involvement," Harvard Family Research Project.
- [16] Gallagher, Lawrence, Barbara Means, & Christine Padilla (2008), "Teachers' Use of Student Data Systems to Improve Instruction: 2005 to 2007." US Department of Education.
- [17] Brunner, Cornelia, Chad Fasca, Juliette Heinze, Margaret Honey, Daniel Light, Ellen Mardinach, & Dara Wexler. "Linking data and learning: The Grow Network study (2005)," *Journal of Education for Students Placed at Risk* Vol. 10, No, 3 pp241-267.
- [18] Kaya, Ergün, & Murat Azaltun(2012), "Role of information systems in supply chain management and its application on five-star hotels in Istanbul." *Journal of Hospitality and Tourism Technology* Vol. 3, No. 2, pp138-146.
- [19] Mandinach, Ellen B, (2012), "A perfect time for data use: Using data-driven decision making to inform practice." *Educational Psychologist* Vol. 47, No. 2, pp71-85.
- [20] Datnow, Amanda, Vicki Park, and Priscilla Wohlstetter, (2007), "Achieving with data." Los Angeles: University of Southern California, Center on Educational Governance (2007).
- [21] U.S. Department of Education Office of Planning, Evaluation and Policy Development (2009). *Implementing data-informed decision making in schools: Teacher access, supports and use*. United States Department of Education (ERIC Document Reproduction Service No. ED504191).
- [22] Schifter, Catherine, Uma Natarajan, Diane Jass Ketelhut, & Amanda Kirchgessner, (2014) "DataDriven Decision-Making: Facilitating Teacher Use of Student Data to Inform Classroom Instruction." *Contemporary Issues in Technology and Teacher Education* Vol. 14, No. 4, pp 419-432.
- [23] Datnow, A., & Park. V., (2009) "School system strategies for supporting data use." In *Handbook of Data-Based Decision Making in Education*, edited by Theodore J. Kowalski and Thomas J. Lasley II, 191–206. New York: Routledge.
- [24] Wong, Alia, (2015) "Life after No Child Left Behind." *The Atlantic* 8.
- [25] Mandinach, Ellen B., & Edith S. Gummer, (2013) "A systemic view of implementing data literacy in educator preparation." *Educational Researcher* Vol. 42, No. 1 pp30-37.
- [26] Lehmann, Erich. L., (1950) "Some principles of the theory of testing hypotheses." *Annals of Mathematical*

Statistics. Vol.21, No. 1, pp1-26.

- [27] March, James G, (1986) "Garbage can models of decision making in organizations." *Ambiguity and command: Organizational perspectives on military decision making*.
- [28] Corner, Adam, & Ulrike Hahn (2013), "Normative theories of argumentation: are some norms better than others?." *Synthese*, Vol. 190, No. 16, pp3579-3610.
- [29] Bates, David W., Gilad J. Kuperman, Samuel Wang, Tejal Gandhi, Anne Kittler, Lynn Volk, Cynthia Spurr, Ramin Khorasani, Milenko Tanasijevic, & Blackford Middleton, (2003). "Ten commandments for effective clinical decision support: making the practice of evidence-based medicine a reality." *Journal of the American Medical Informatics Association* Vol. 10, No. 6, pp523-530.
- [30] Cresswell, Kathrin M., David W. Bates, & Aziz Sheikh, (2013) "Ten key considerations for the successful implementation and adoption of large-scale health information technology." *Journal of the American Medical Informatics Association* Vol. 20, No. e1, ppe9-e13.
- [31] Cresswell, Kathrin M., David W. Bates, & Aziz Sheikh, (2016) "Ten key considerations for the successful optimization of large-scale health information technology." *Journal of the American Medical Informatics Association*. Vol. 24, No. 1, p182-187.
- [32] Nielsen, J. (2005). *Ten usability heuristics*.
- [33] Whyte, Grafton, & Andy Bytheway, (1996) "Factors affecting information systems' success." *International journal of service industry management* Vol.7, No. 1, pp74-93.
- [34] Wayman, Jeffery C., & Vincent Cho, (2008) "Preparing educators to effectively use student data systems." *Handbook on data-based decision-making in education*, pp89-104.
- [35] Moorning, K. M (2018). "Technology Capacity-Building Strategies for Increasing Participation & Persistence in the STEM Workforce, *International Journal on Integrating Technology in Education*, Vol.7, No.1, pp25-37.

AUTHOR

Vivienne Forrester is an educator, instructional technologist, and a technology integration coach. With over fifteen years in the education industry, she is passionate about STEM education and profoundly believes in life-long learning. Vivienne Forrester currently serves as the head of upper school academic technology and computer science teacher at The Chapin School, New York. Prior to joining Chapin, Vivienne Forrester served as an International Baccalaureate (IB) information technology teacher, technology department chair, Project Lead the Way (PLTW) coordinator, and STEM coordinator with the public charter school system in Washington, DC. She also worked for the National Training Agency in Jamaica as a computer science instructor. She is a graduate of the University of Technology, Jamaica and Nova Southeastern University (NSU) with majors in Computing with Accounting (B.Ed) and Management Information Systems (MSc). Ms. Forrester is a Ph.D. candidate in Information Systems at NSU.

GLOBALIZATION AND LANGUAGE TEACHING AND LEARNING IN CHINA

Jingbo Sun

School of Foreign Languages and Cultures, Beijing Wuzi University, Beijing, China

ABSTRACT

Globalization has been an irreversible trend in the world economic and social advances. China, as an indispensable developing power, is playing a significant role on the world stage. Language, as a cultural element, is also affecting the process of China's globalization. This paper aims to study the relationship between globalization and the cultural development of foreign language teaching and learning in China. It analyzes the reasons for the boost of foreign language teaching and learning in the age of knowledge economy. Language, conveying ideological, political and cultural connotations, carries more significance beyond its linguistic importance. In the context of globalization, therefore, language teaching and learning is a more complicated issue than a pure culture indicator.

KEYWORDS

Globalization, the Age of Knowledge Economy, Language Teaching and Learning, Linguistic Capital

For More Details: <https://airccse.org/journal/ijite/papers/2413ijite04.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol2.html>

REFERENCES

- [1] Adamson, B. (2002) Barbarian as a foreign language: English in China's schools. *World English*, Vol. 21, No.2, pp231-243.
- [2] Becher, G. S. (1983) *Human Capital: A theoretical and empirical analysis with special reference to education* New York: National Bureau of Economic Research.
- [3] Block, D., and Cameron, D. (eds) 2002. *Globalization and Language Teaching* London: Routledge.
- [4] Burbles, N. C. and Torres, C. A. (eds) (2000) *Globalization and Education: critical perspectives*. New York: Routledge.
- [5] Held, D. & McGrew, A. Goldblatt, D. & Perraton, J. (1999) *Global Transformations* Cambridge: Polity Press.
- [6] Lai, E., (2001) Teaching English as a private enterprise in China. *English Today* Vol.66, No.17, pp32-36.
- [7] Maurais, J. and Morris, M. (eds) (2003) *Language in A Globalising World*. Cambridge: Cambridge University Press.
- [8] McArthur, T. (2003) English as Asian Language. *English Today* Vol.74, No. 19, pp19-22
- [9] Modiano, M. (2001) Ideology and the ELT practitioner. *International Journal of Applied Linguistics*, Vol.11, No.2, pp159-173.
- [10] Pells, R. (2002) "American Culture Goes Global, or Does It?" *The Chronicle of Higher Education* Vol. 48, No. 32, pp7-12
- [11] Phillipson, R. (1993) *Linguistic Imperialism* Oxford: Oxford University Press.
- [12] Robertson, R. and White, K. E., (eds) (2003). *Globalization: critical concepts in sociology*. London and New York: Routledge.
- [13] Tonkin, H. and Reagan, T. (eds) (2003) *Language in the Twenty-First Century*. Amsterdam/Philadelphia: John Benjamins Publishing Company.
- [14] Zhang, L. (2003) Globalization and the teaching of English in China. *Hwa Kang Journal of TEFL*, Vol.9, pp127-144.
- [15] China's Ministry of Education (2003) The introduction of overseas students in China. [WWW]<URL: <http://www.moe.edu.cn/cgi-bin/guoji/Chinese/LinkTo2.php?laihua.inc>>[Accessed 28 April, 2004]
- [16] New oriental school, (2002) A miracle of double-win. [WWW]<URL:http://www.cpe.com.cn/server/show_jing.asp?page=38> [Accessed 28 April, 2004]

THE IMPACT OF SIMULATION ON TEACHING EFFECTIVENESS AND STUDENT LEARNING PERFORMANCE

Abdullah Alenezi

Northern Borders University, Arar, Saudi Arabia

ABSTRACT

Simulation Strategy Is Increasingly Becoming A Popular Educational Tool In The Production Of Highly Qualified Professionals In The Field Of Education, Health, And Applied Sciences. Particularly, The Strategy Helps Improve Teaching Practice Effectiveness And Student Learning Performance. This Research Paper Aimed At Investigating The Effectiveness Of Simulation In Teaching And Student Learning Performance In The University Context. The Study Was Important Since It Highlighted How Different Kinds Of Simulation Improve Teaching Practice Effectiveness And Student Learning Performance. The Explanatory Research Design Was Used In This Research Where Data Was Collected Using Close-Ended Questionnaires Designed To Utilize Likert Scale Described In The Methodology Section. The Study Targeted 150 Student Participants. However, Only 134 Students Filled And Returned Their Questionnaires. Both Descriptive And Statistical Analysis Techniques Were Applied In This Research. Descriptive Statistics, Particularly Percentages Were Used In Describing Participant Information. Also, Statistical Analysis Was Used In Determining Reliability Of The Questionnaire As Well As For Hypothesis Testing. The Study Indicated That Social Process Simulation, Diagnostic Simulation, And Data Management Simulation Have A Statistically Significant Positive Relationship With Teaching Practice Effectiveness And Student Learning Performance. Based On The Findings, It Was Concluded And Recommended That Teachers And Students Should Accept The Use Of Simulation In Their Classroom To Enhance Their Classroom Outcomes.

KEYWORDS

Simulation, educational tool, teaching effectiveness, learning performance, variables, university context

For More Details: <http://aircconline.com/ijite/V8N3/8319ijite01.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol8.html>

REFERENCES

- [1] Albers, M. J. (2017). Introduction to quantitative data analysis in the behavioral and social sciences. John Wiley & Sons.
- [2] Auman, C. (2011). Using simulation games to increase student and instructor engagement. *College Teaching*, 59(4), 154-161.
- [3] Clark, R. M., Kaw, A., & Besterfield-Sacre, M. (2016). Comparing the effectiveness of blended, semiflipped, and flipped formats in an engineering numerical methods course. *Advances in Engineering Education*, 5(3), n3.
- [4] Cohen, P., West, S. G., & Aiken, L. S. (2014). Applied multiple regression/correlation analysis for the behavioral sciences. Psychology Press.
- [5] Colnerud, G. (2013). The Ethical Problems of Research: An empirical study of ethics in research practice. *International Journal on Integrating Technology in Education (IJITE)* Vol.8, No.3, September 2019 10
- [6] Dang, Y., Zhang, Y., Ravindran, S., & Osmonbekov, T. (2016). Examining student satisfaction and gender differences in technology-supported, blended learning. *Journal of Information Systems Education*, 27(2), 119-130.
- [7] Dolvin, S. D., & Pyles, M. K. (2018). The impact of simulation activity on student performance. *Journal of Economics and Economic Education Research*, 19(3), 1-10.
- [8] Franklin, A. E., & Lee, C. S. (2014). Effectiveness of simulation for improvement in self-efficacy among novice nurses: A meta-analysis. *Journal of Nursing Education*, 53(11), 607-614.
- [9] Grover, S., Pea, R., & Cooper, S. (2015). Designing for deeper learning in a blended computer science course for middle school students. *Computer Science Education*, 25(2), 199-237.
- [10] Guy, R. S., & Lownes-Jackson, M. (2015). The use of computer simulation to compare student performance in traditional versus distance learning environments. *Issues in Informing Science and Information Technology*, 12, 95-109.
- [11] Heale, R., & Twycross, A. (2015). Validity and reliability in quantitative studies. *Evidence-based nursing*, 18(3), 66-67.
- [12] Hopwood, N., Rooney, D., Boud, D., & Kelly, M. (2016). Simulation in higher education: A sociomaterial view. *Educational Philosophy and Theory*, 48(2), 165-178.
- [13] Hwang, J. Y., & Hahn, K. H. (2017). A case study of 2d/3d cad virtual prototype simulation programs to enhance student performance in student-centered fashion design education. *J Textile Eng Fashion Technol*, 3(1), 578-584.
- [14] Joshi, A., Kale, S., Chandel, S., & Pal, D. K. (2015). Likert scale: Explored and explained. *British Journal of Applied Science & Technology*, 7(4), 396.
- [15] Liou, S. R., Yu, W. C., Tsai, H. M., & Cheng, C. Y. (2015). Teaching information literacy in nursing using blended learning pedagogy. *Creative Education*, 6(13), 1446.
- [16] López-Pérez, M. V., Pérez-López, M. C., & Rodríguez-Ariza, L. (2011). Blended learning in higher education: Students' perceptions and their relation to outcomes. *Computers & Education*, 56(3), 818- 826.
- [17] Martini, R., Rios, J., Polatajko, H., Wolf, T., & McEwen, S. (2015). The performance quality rating scale (PQRS): reliability, convergent validity, and internal responsiveness for two scoring systems. *Disability and rehabilitation*, 37(3), 231-238.
- [18] McCoy, C. A. (2017). Playing Goffman's Information Game: A Classroom Activity Involving Student Interactions. *Teaching Sociology*, 45(3), 260-268.
- [19] McGarry, D. E., Green, J. A., & Fowler, C. (2018). Snowballing Via Facebook: A Novel Way to Recruit Millennial Nursing Student Research Participants.
- [20] Miller, A. (2016). Benchmarking learner education using online business simulation. *International Journal of Cyber Society and Education*, 9(1), 17-34.
- [21] O'Connor, C., Mortimer, D., & Bond, S. (2011). Blended learning: Issues, benefits, and challenges. *International Journal of Employment Studies*, 19(2), 63.
- [22] PytlikZillig, L. M., Horn, C. A., Bruning, R., Bell, S., Liu, X., Siwatu, K. O & Carlson, D (2011). Face-to-face versus computer-mediated discussion of teaching cases: Impacts on preservice teachers' *International Journal on Integrating Technology in Education (IJITE)* Vol.8, No.3, September 2019 11 engagement, critical analyses, and self-efficacy. *Contemporary Educational Psychology*, 36(4), 302- 312.
- [23] Rahi, S. (2017). Research design and methods: A systematic review of research paradigms, sampling issues, and instruments development. *International Journal of Economics & Management Sciences*, 6(2), 1- 5.
- [24] Raymond, C. (2010). Do Role-Playing Simulations Generate Measurable and Meaningful Outcomes? A Simulation's Effect on Exam Scores and Teaching Evaluations. *International Studies Perspectives*, 11(1), 51-60.
- [25] Rooney, D., Hopwood, N., Boud, D., & Kelly, M. (2015). The role of simulation in pedagogies of higher education for the health professions: Through a practice-based lens. *Vocations and Learning*, 8(3), 269-285.

- [26] Taher, M., & Khan, A. (2015). Comparison of simulation-based and hands-on teaching methodologies on students' learning in an engineering technology program. *QScience Proceedings*, 58.
- [27] Vos, L. (2015). Simulation games in business and marketing education: How educators assess student learning from simulations. *The International Journal of Management Education*, 13(1), 57-74.
- [28] Xu, Y., & Yang, Y. (2010). Student learning in business simulation: An empirical investigation. *Journal of Education for Business*, 85(4), 223-228. [29] Yamat, H. (2013). Voicing on Virtual and Face to Face Discussion. *Turkish Online Journal of Educational Technology-TOJET*, 12(2), 372-375.

STUDENT'S ATTITUDES TOWARD INTEGRATING MOBILE TECHNOLOGY INTO TRANSLATION ACTIVITIES

David Blasco

Department of Education, National Chung Cheng University, Taiwan

ABSTRACT

Previous research shows that the integration of mobile phones in the classroom is challenging, but numerous studies have also demonstrated that wireless networks and mobile tools to support collaborative learning improve educational outcomes. This study aims to question the feasibility of replicating their research methodology in Taiwanese classrooms. For this purpose, two conventional classes of second year license degree in Applied Foreign Languages were the respondents. The students' attitudes were observed and their participation was examined through an interview that revealed the perceptions of their learning experiences. The results of this study show that students, when allowed to use their cell phones according to their own needs in a collaborative learning, become more interested in their learning and can improve their English efficiency more than students in the conventional classroom. It is thus recommended that highly advanced technology be integrated with more flexibility to match students' learning needs and motivations.

KEYWORDS

Technology, management, integration, mobile phones, collaborative learning

For More Details: <https://airconline.com/ijite/V5N1/5116ijite01.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol5.html>

REFERENCES

- [1] Tai, Y.& Ting, Y.L. (2011). Adoption of mobile technology for language learning:Teacherattitudes and challenges.JALT CALL Journal, 7(1), p.3-18.
- [2] Unesco (2010). Mobile learning for quality education and social inclusion. Institute for Information Technology in Education.Retrieved from <http://iite.unesco.org/pics/publications/en/files/3214679.pdf>
- [3] Schunk, D.,H. (2008). Learning theories: an educational perspective.Upper Saddle River, N.J. London: Merrill Prentice Hall, 2008Edition: 5th edition. Retrieved from http://keats.kcl.ac.uk/pluginfile.php/758413/mod_resource/content/2/Chapter_5.pdf
- [4] Shih, J.L., Chuang, C.W., Hwang, G.J. (2010). An inquiry-based learning approach to Enhancing Social science learning effectiveness.Educational Technology & Society,13(4), 50-62.
- [5] Ou, F.C. (2015). Using mobile devices to improve primary educational outcomes: an analysis in Primary education. International Journal of Learning, Teaching and Educational Research, 12(3), 28-45.
- [6] Chu, M.P. & Nakamura, T. (2010). A study of Chinese and Japanese College Students' L2 learning Styles. Asian Culture and History 2(2), 30-35.
- [7] Chang, M. (2011). Factors affecting the implementation of communicative Language teaching inTaiwanese College English classes. English and Language Teaching, 4(2), 3-12.
- [8] Huang, Y.M., Jing, Y.L., Huang, T.C. (2009). An educational mobile blogging system for supporting collaborative learning. Educational Technology & Society, 12(2), 163-175.
- [9] Hu, Z. (2011). Vocabulary learning assisted by mobile phones: perceptions of Chinese Adult learners.Journal of Cambridge Studies 8(1), p.139-154.
- [10] Clough, G., Jones, A.C., McAndre, P., Scanlon, E. (2007). Informal learning with PDAs and smart phones. Journal of Computer Assisted Learning, 24, 359-371.
- [11] Cui, G., Wang, S. (2008). Adopting cell phones in EFL teaching and learning. The University of Southern Mississippi, 1(1), 69-80.
- [12] Lee, K.B., and Salman, R. (2012). The design and development of mobile collaborative learning Application using Android. Journal of Information Technology and Application in Education, 1(1), 1-8.
- [13] Miangah, M.T., Nezarat, A. (2012). Mobile-Assisted Language learning.International Journal of Distributed and Parallel Systems, 3 (1), 309-319.
- [14] Begum, R. (2011). Prospect for cell phones as instructional tools in the EFL classroom: A case studyof Jahangirnagar University, Bangladesh.English Language Teaching. Published by Canadian Center of Science and Education, 4(1), 105-115. Retrieved from <http://www.ccsenet.org/journal/index.php/elt/article/view/6958/6939>
- [15] Liu, T.C., Wang, H.Y., Liang, J.K., Chan, T.W., Ko, H.W & J.C. Yang (2003). Wireless and mobile technologies to enhance teaching and learning. Journal of Computer Assisted Learning, 19, 371-382.
- [16] Chen, Y.F. (2006). Social phenomena of mobile phone use: An exploratory study in Taiwanese College students. School of Communication, Information, and Library Studies. Rutgers, The State university of New Jersey (11), 219-244.
- [17] Bayless M.L., Clipson W.T., Wilson S.A. (2013). Faculty perceptions and policies of students' use Of personal Technology in the classroom. BusinessCommunication and Legal Studies, 32, 118-136.
- [18] Ali, A., Alrasheedi, M., Ouda A., Capretz, L.F. (2014). A study of the interface usability issues of mobile learning applications for smart phones from the user's perspectives.International Journal on Integrating Technology in Education 3(4), 3-16.
- [19] Marzilli, C., Delello, J., Marmion, S., Whorter, R.M., Roberts, P.,Marzilli, S. (2014).Faculty Attitudes towards integrating technology and innovation. International Journalon Integrating Technology in Education, 3(1), 1-16.
- [20] Arshad, M., Ramani, H. S., Kashif, N. U. (2014). Developing a reliable and valid questionnaire to measure students' satisfaction level on their courses experiences at University level in Pakistan.Pensee Journal, 77,3, p. 393-405. Retrieved form http://www.academia.edu/6765032/Reliability_and_validity_of_survey_questionnaire
- [21] Adweh, M., Mueen, A., Zafar, B., & Manzoor, U. (2014).International Journal on Integrating Technology in Education, 3(4), 17-24.
- [22] Kopfler, E., Squire, K., Jenkins, H. (2002). Environmental detectives: PDAs as awindow into avirtual simulated world. Proceedings of the IEEE International Workshop on wireless and mobile technologies in Education.
- [23] Vesisenaho, M, V., T, Kukkonen, J., Havu-Nuutinen S., Hartikainen, A., Kärkkäinen, S. (2010). Blended learning with everyday technologies to activate students 'collaborative learningScience
- [24] Education International, 21 (4), 272-283.

AUTHOR:

I grew up and studied in the South of France and earned a bachelor degree in Marketing. While studying in France, I developed an early interest in international relations while learning English. I lived and worked in the United Kingdom for three years, and I moved to Taipei with my wife in 1999. Having a background in cultures of these countries, and being an independent user of the Chinese language as well, I have developed a curious mind regarding the teaching of English for Business Purposes. Due to this, while as I was working as an English and French and teacher in Taipei, I studied in both National Taiwan University of Science and Technology in the department of Applied Foreign Languages as well as National Taipei University, Global MBA program.

As a lifelong learning project, I decided to pursue a PhD in education in 2012, at Zhong Zheng University, located in Jia Yi. The purpose of my study is to earn a doctoral degree to support the teaching my business skills gained from NTU Global MBA program, which are relevant to the teaching of English for Business purpose to University students.

My study at the Global MBA program combined with the teaching of foreign languages provided me with the opportunity to join Taipei college of Maritime technology, located in Tamsuei, and to gain my first experience at teaching English for commercial and leisure purposes. As I taught English for more than three years, I came to understand Chinese learners better and apply my learning in Applied Foreign Languages to develop teaching materials that were adapted to their learning styles.

I am currently teaching English in National Taipei University of Business, located in Taipei. Courses such as film translation and business letters and international correspondence provide me with new perspectives to teach as English as a foreign language focused on business purposes and which are adapted to students' learning needs.



AN EXPLORATION OF THE RELATIONSHIP BETWEEN MODERN FOREIGN LANGUAGE (MFL) TEACHERS AND COMPUTER ASSISTED LANGUAGE LEARNING (CALL)

Louise Hanna, Dr. David Barr, Dr. Helen Hou and Shauna McGill School of

Education, Ulster University, UK

ABSTRACT

A study was carried out with 33 teachers of Modern Foreign Languages (MFL) to obtain information on the interaction of classroom professionals with Computer Assisted Language Learning (CALL) and digital technologies in Second Language (L2) education. MFL teachers were recruited through Facebook groups in the UK. Research subjects were asked to fill out a questionnaire with CALL-specific statements. Significantly, participants recognised a gap in practice versus the expectation of CALL in the MFL classroom. Overall, participants were shown to be interested adopted and daily users of CALL who appreciated its ease and importance for teaching and learning in L2 pedagogy.

KEYWORDS

Computer Assisted Language Learning (CALL), Modern Foreign Languages (MFL), teacher attitudes, digital technologies, Second Language (L2) pedagogy, Second Language Acquisition (SLA), online learning, teacher perceptions, English as a Foreign Language (EFL).

For More Details: <https://aircconline.com/ijite/V9N4/9420ijite01.pdf>

Volume Link: <http://airccse.org/journal/ijite/vol9.html>

REFERENCES

- [1] Zou, B. & Thomas, M. (2019). *Recent Developments In Technology-Enhanced & Computer-Assisted Language Learning*, Hershey: IGI Global, pp. xv.
- [2] Rahimi, M., (2015). *Handbook of research on individual differences in computer-assisted language learning*, Hershey, PA: Information Science Reference, an imprint of IGI Global, pp. 45.
- [3] Dhawan, S. (2020). Online Learning: A Panacea in the Time of COVID-19 Crisis. *Journal of Educational Technology Systems*, 49(1), 5–22. Available online: <https://doi.org/10.1177/0047239520934018>
- [4] König, J. Jäger-Biela, D. J. & Glutsch, N. (2020) Adapting to online teaching during COVID-19 school closure: teacher education and teacher competence effects among early career teachers in Germany, *European Journal of Teacher Education*, 43:4, 608-622. Available online: <https://doi.org/10.1080/02619768.2020.1809650>
- [5] Marpa, E. P. (2021). Technology in the teaching of mathematics: An analysis of teachers' attitudes during the COVID-19 pandemic. *International Journal on Studies in Education (IJonSE)*, 3(2), 92- 102. Available online: <https://doi.org/10.46328/ijonse.36>
- [6] Niemi, H. M., & Kousa, P. (2020). A case study of students' and teachers' perceptions in a Finnish high school during the COVID pandemic. *International Journal of Technology in Education and Science (IJTES)*, 4(4), 352-369. Available online: <https://doi.org/10.46328/ijtes.v4i4.167>
- [7] Gao, L. X & Zhang, L. J. (2020). Teacher Learning in Difficult Times: Examining Foreign Language Teachers' Cognitions About Online Teaching to Tide Over COVID-19. *Front. Psychol.* 11:549653. Available online: <https://doi.org/10.3389/fpsyg.2020.549653>
- [8] Khatoony, S., & Nezhadmehr, M. (2020). EFL teachers' challenges in integration of technology for online classrooms during Coronavirus (COVID-19) pandemic in Iran. *AJELP: Asian Journal of English Language and Pedagogy*, 8, 1-16. Available online: <https://doi.org/10.37134/ajelp.vol8.sp.1.2020>
- [9] Zhang, C. (2020). From Face-to-Face to Screen-to-Screen: CFL Teachers' Beliefs about Digital Teaching Competence during the Pandemic. *International Journal of Chinese Language Teaching*, 1(1), 35-52. Available online: <https://doi.org/10.46451/ijclt.2020.06.03>
- [10] Woolfolk, A & Margetts, K. (2012). *Educational Psychology*, third edition. Frenchs Forest, NSW, Australia: Pearson Australia, pp. 7.
- [11] Clark-Wilson, A. Robutti, O. & Sinclair, N. (2014). *The Mathematics Teacher in the Digital Era. An International Perspective on Technology Focused Professional Development*. Dordrecht: Springer, pp. 11.
- [12] Kobayashi, R. (2008). *New educational technology*. New York: Nova Science Publishers, pp. 105.
- [13] Visvizi, A., (2019). *The future of innovation and technology in education policies and practices for teaching and learning excellence*, United Kingdom: Emerald Publishing, pp. 116.
- [14] Vrasidas, C. et al. (2006). *Preparing teachers to teach with technology*. Greenwich Conn: Information Age Publishing, pp. 366.
- [15] Lytras, M. D. & Lytras, M. D. (2010). *Technology Enhanced Learning: Quality of Teaching and Educational Reform: 1st International Conference, TECH-EDUCATION 2010, Athens, Greece, May 19-21, 2010. Proceedings*. Berlin, Heidelberg: Springer Berlin Heidelberg, pp. 462.

- [16] Selwyn, N., (2016). Education and technology: key issues and debates, New York: Bloomsbury Academic, pp. 127.
- [17] Lin, C. -H. Zhang, D. & Zheng, B. (2017). Preparing foreign language teachers for next-generation education. Hershey, PA: Information Science Reference (an imprint of IGI Global), pp. 32.
- [18] Gibson, D. & Baek, Y. (2009). Digital simulations for improving education: learning through artificial teaching environments, Hershey, PA: Information Science Pub, pp. 428.
- [19] Kidd, T. (2008). Handbook of research on instructional systems and technology, Hershey, PA: Information Science Reference, pp. 227.
- [20] Carreira, S. et al., (2018). Youngsters Solving Mathematical Problems with Technology #x98; The Results and Implications of the Problem#x9C; Web Project, Cham: Springer International Publishing, pp. viii.
- [21] Haghi, A. K. & Luppigini, R., (2010). Cases on digital technologies in higher education: issues and challenges, Hershey, PA: IGI Global, pp. 214.
- [22] Bain, A. & Weston, M. E. (2012). The learning edge: what technology can do to educate all children. New York: Teachers College Press, pp. xi.
- [23] Torsani, S., (2016). CALL teacher education: language teachers and technology integration, Rotterdam: Sense Publishers, pp. 55.
- [24] Eshetu, G. (2015). Factors Affecting Instructional Leaders Perception towards Educational Media Utilization in Classroom Teaching. Hamburg, Germany: Ancho, pp. 25.
- [25] Brown, T. H. & van der Merwe, H. J. (2015). The mobile learning voyage - from small ripples to massive open waters: 14th World Conference on Mobile and Contextual Learning, mLearn 2015, Venice, Italy, October 17-24, 2015, proceedings, Cham: Springer, pp. 33/
- [26] Pahomov, L., (2014). Authentic learning in the digital age: engaging students through inquiry, Alexandria, VA: ASCD, pp. 9.
- [27] Ball, L. Drijvers, P. Ladel, S. Siller, H. -S. Tabach, M. & Vale, C. (2018). Uses of Technology in Primary and Secondary Mathematics Education: Tools, Topics and Trends. Cham: Springer International Publishing, pp. 416.
- [28] Schul, J. E. (2019). Paradoxes of the public school: historical and contemporary foundations of American public education. Charlotte, NC: Information Age Publishing, Inc, pp. 183.
- [29] Underwood, J. D. M. & Farrington-Flint, L. (2015). Learning and the E-Generation. Chichester, West Sussex: John Wiley & Sons Inc, pp. 156.

AUTHOR:

Louise Hanna is a second year PhD researcher at Ulster University in Northern Ireland. Her interests are extensively centred on the usage of digital technologies in L2 pedagogy. Prior to undertaking her PhD, Louise was a MFL teachers in both England and Northern Ireland.



E-LEARNING STUDENT ASSISTANCE MODEL FOR THE FIRST COMPUTER PROGRAMMING COURSE

Noman Hasany

Department of Computer Science, Qassim University, Qassim, KSA

ABSTRACT

E-Learning applied to computer programming course design is a promising area of research. The student having clear understanding of the programming constructs can apply it to solve various problems. Because of limited time and availability, the instructor can go back to some extent to cover the weaknesses of their students that hinder the understanding of the problems. As more lessons are covered, the weak students become weaker in programming. To cope up with these problems an e-learning system is devised which the student can use anywhere and at any time as a web application. It comprises of both tutoring and assessment and also provides guiding the students to error correction using back-tracking technique to refine the concepts and reattempt the programming problem.

KEYWORDS

E-learning, computer based learning, first programming language, novice programmers

For More Details: <https://aircconline.com/ijite/V6N1/6117ijite01.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol6.html>

REFERENCES

- [1] Law, K. M., Lee, V. C., & Yu, Y. T. (2010). Learning motivation in e-learning facilitated computer programming courses. *Computers & Education*, 55(1), 218-228.
- [2] Pea, R. D., & Kurland, D. M. (1984). On the cognitive effects of learning computer programming. *New ideas in psychology*, 2(2), 137-168.
- [3] Cavus, N., Uzunboylu, H., & Ibrahim, D. (2007). Assessing the success rate of students using a learning management system together with a collaborative tool in web-based teaching of programming languages. *Journal of educational computing research*, 36(3), 301-321.
- [4] Douce, C., Livingstone, D., & Orwell, J. (2005). Automatic test-based assessment of programming: A review. *Journal on Educational Resources in Computing (JERIC)*, 5(3), 4.
- [5] Chalk, P., Boyle, T., Pickard, P., Bradley, C., Jones, R., & Fisher, K. (2003, August). Improving pass rates in introductory programming. In *Proceedings of the 4th Annual LTSN-ICS Conference* (pp. 6-10).
- [6] Chrysafiadi, K., & Virvou, M. (2013). PeRSIVA: An empirical evaluation method of a student model of an intelligent e-learning environment for computer programming. *Computers & Education*, 68, 322-333.
- [7] Hsiao, I. H., Sosnovsky, S., & Brusilovsky, P. (2010). Guiding students to the right questions: adaptive navigation support in an ELearning system for Java programming. *Journal of Computer Assisted Learning*, 26(4), 270-283.
- [8] Othman, A. A., Pislaru, C., & Impes, A. M. (2014). Improving the quality of technology-enhanced learning for computer programming courses. *International Journal of Information and Education Technology*, 4(1), 83.
- [9] Vega, C., Jiménez, C., & Villalobos, J. (2013). A scalable and incremental project-based learning approach for CS1/CS2 courses. *Education and Information Technologies*, 18(2), 309-329.
- [10] Robins, A., Rountree, J., & Rountree, N. (2003). Learning and teaching programming: A review and discussion. *Computer science education*, 13(2), 137-172.
- [11] Klačnja-Milićević, A., Vesin, B., Ivanović, M., & Budimac, Z. (2011). E-Learning personalization based on hybrid recommendation strategy and learning style identification. *Computers & Education*, 56(3), 885-899.

CLASSROOM COMMUNICATION AND ICT INTEGRATION: PUBLIC HIGH SCHOOL TEACHERS' NOTIONS

Louis Placido Francisco Lachica

College of Education, Arts and Sciences, Capiz State University Pontevedra Campus Pontevedra,
Capiz, Philippines

ABSTRACT

As part of the 21st Century skills, the integration of Information and Communication Technology is inevitable in classroom communication. This descriptive qualitative research covered all 60 teachers in five selected public high schools in Capiz, Philippines. Semi- structured interviews, informal interviews, and observations were done to gather data. The data were analyzed using General Inductive Approach and thematic analysis to unearth and cull emerging notions and themes. Participants viewed classroom communication as a process, tool, context, interaction, and strategy. ICT for them was a driver for change, a conduit for learning, a modern technology, and an instrument for effective teaching and learning. ICT integration in classroom communication was interpreted to have helped teaching, to be a new medium of instruction, and a marriage or partnership between classroom communication and ICTs. It is recommended that best practices in integrating ICTs in classroom communication should be explored and documented.

KEYWORDS

Classroom Communication, ICTs, ICT Integration, Notions

For More Details: <https://airccse.org/journal/ijite/papers/4215ijite01.pdf>

Volume Link: <https://airccse.org/journal/ijite/vol4.html>

REFERENCES

- [1] Alagaran, Jose Reuben (2009) In Keeping with the Digital Age: Planning and Adoption of ICT Among Communication Educators in the Philippines, Unpublished Dissertation. University of the Philippines Diliman.
- [2] Asgarkhani, Mehdi and James, William (2008) "A Pilot Study of Current Trends in Information and Communication Technology (ICT) Education within the Tertiary Sector", *Contemporary Management Research* 4: 291-304.
- [3] Brandenburg, Marcus and Dudt, Kurt (1998) *International Education*, Accessed in curry.ateneo.net, Date accessed: June 16, 2015.
- [4] Chowdhury, Mehdi (2009) "ICT Integration Trends and Practices in College Classrooms", *EDULEARN09 Conference*. pp. 48-59. Barcelona, Spain: Proquest.
- [5] Creswell, John (2003) *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (2nd ed.), California, U.S.A. SAGE Publications, Inc.
- [6] Coates, Joseph (1997) *The Nexy Twenty-Five Years of Technology: Opportunities and*, Accessed in: www.oecd.org, Date accessed: June 8, 2015.
- [7] de Guzman, Allan and Fabian, Federico (2008) "A Triad of Filipino Adolescents' Zones of Lived Experiences of Information and Communications Technology (ICT)," *Educational Research Policy Practice*. pp. 23-34.
- [8] Gallaire, Herve (1998) *21st Century Technologies: Promises and Perils of a Dynamic Future*, Accessed in www.oecd.org, Date accessed: May 27, 2014.
- [9] Lewin, Kurt (n.d.) *Compare: A Journal of Comparative Education*, Accessed in curry.ateneo.net, Date accessed: June 16, 2015.
- [10] Littlejohn, Stephen and Foss, Karen (2009) *Encyclopedia of Communication Theory*, SAGE Publications, Inc., California, USA, pp. 66-65, 776-777, 978-979.
- [11] Littlejohn, Stephen and Foss, Karen (2008) *Theories of Human Communication*, USA: Wadsworth Publishing Co.
- [12] Ocampo, Lalaine (2008) *Classroom Communication as a Site of Empowerment and Marginalization in the Stories College Students Tell*, Unpublished Doctoral Dissertation. University of the Philippines Los Baños.
- [13] Saludadez, Jean and Garcia, Primo (2001) "Seeing pur Quantitative Counterparts: Construction of Qualitative Research in a Roundtable Discussion," *Forum Qualitative Sozialforschung / Forum: Qualitative Social Research (Online Journal)*, 2 (1). Accessed from: <http://qualitative-research.net/fqs/fqs-eng.htm>. Date accessed: October 28, 2013.
- [14] Strauss, Anselm and Corbin, Juliet (1998) *Basics of Qualitative Research* (2nd ed.), USA, CA: Sage Publications.
- [15] Teddlie, Charles and Tashakkori, Abbas (2003) "Major Issues and Controversies in the Use of Mixed Methods in the Social and Behavioral Studies, *Handbook of Mixed Methods in Social and Behavioral Research*, Thousand Oaks: Sage Publications.
- [16] Tinio, Victoria (2005) *National Framework Plan for ICTs in Basic Education (2005-2010)*, Makati City: Foundation for Information Technology in Education.
- [17] Villamor, Ted (2011) "The Level of Implementation of Information and Communication Technology for Basic Education Program at Ligao City Division: An Assessment," *International Journal of Arts and Sciences*. pp. 363-386.

Author

Dr. Louis Placido F. Lachica graduated in 2001 with the degree Bachelor of Secondary Education major in English and his Master of Arts in English degree in 2008. In 2014, he finished his Doctor of Philosophy in Development Communication with cognate in Strategic Planning and Public Policy at the University of the Philippines Los Baños as a full scholar of the Commission on Higher Education Faculty Development Program Phase II (CHED FDP II). For a decade now, he has been teaching at Capiz State University Pontevedra Campus. At present, he is the program coordinator of the Bachelor in Elementary Education in the same university.



SUCCESSFUL IMPLEMENTATION OF TPACK IN TEACHER PREPARATION PROGRAMS

Barbara Martin

Illinois State University, United States

ABSTRACT

Today's teacher education programs should be providing pre-service teachers with ample preparation in shifting instructional approaches enriched with innovative educational technologies. In fact as Lambert & Gong (2010) stated "We have entered a crucial time when the technological preparation of teachers has become an urgent problem we can no longer afford to marginalize" (p. 55). This review of literature examines recent publications on the topic of technology in teacher preparation through the theoretical lens of Technology, Pedagogy and Content Knowledge (TPACK) which has shown potential to emphasize a teacher's understanding of how technologies can be used effectively as a pedagogical tool.

For More Details : <https://airccse.org/journal/ijite/papers/4115ijite02.pdf>

Volume Link : <https://airccse.org/journal/ijite/vol4.html>

REFERENCES

- [1]. Abbitt, J. (2011). Measuring technological pedagogical content knowledge in preservice teacher education: A review of current methods and instruments. *Journal of Research on Technology in Education*, 43(4), 281-300.
- [2]. Brantley-Dias, L., Kinuthia, W., Shoffner, M. B., De Castro, C., & Rigole, N. J. (2007). Developing pedagogical technology integration content knowledge in preservice teachers: A case study approach. *Journal of Computing in Teacher Education*, 23(4), 143-150.
- [3]. Coffman, V. G. (2013). The perceived technology proficiency of students in a teacher education program. (Order No. 3617732, Kent State University). ProQuest Dissertations and Theses, , 229. Retrieved from <http://search.proquest.com/docview/1531329184?accountid=11578>. (1531329184).
- [4]. Cohen, M., & Tally, B. (2004). New maps for technology in teacher education: After standards, then what?. *Journal of computing in teacher education*, 21(1), 5-9.
- [5]. Collier, S., Weinburgh, M. H. & Rivera, M. (2004). Infusing technology skills into a teacher education program: Change in students' knowledge about and use of technology. *Journal of Technology & Teacher Education*, 12(3), 447-468.
- [6]. Cox, S., & Graham, C. R. (2009). Diagramming TPACK in Practice: Using an elaborated model of the TPACK framework to analyze and depict teacher knowledge. *TechTrends*, 53(5), 60-69.
- [7]. Gao, P., Choy, D., Wong, A. F. L., & Wu, J. (2009). Developing a better understanding of technology-based pedagogy. *Australasian Journal of Educational Technology*, 25(5), 714-730.
- [8]. Goktas, Y., Yildirim, S. & Yildirim, Z. (2009). Main barriers and possible enablers of ICT integration into preservice teacher education programs. *Educational Technology & Society*, 12(1), 193-204.
- [9]. Gronseth, S., Brush, T., Ottenbreit-Leftwich, A., Strycker, J., Abaci, S., Easterling, W., & ... van Leusen, P. (2010). Equipping the next generation of teachers: Technology preparation and practice. *Journal of Digital Learning In Teacher Education*, 27(1), 30-36.
- [10]. Hersh, E. C. (2013). Change and challenge: The influence of technology integration in teacher preparation programs.
- [11]. Hu, C., & Fyfe, V. (2010). Impact of a new curriculum on pre-service teachers' Technical, Pedagogical and Content Knowledge (TPACK). *Curriculum, Technology & Transformation for an Unknown Future. Proceedings ascilite Sydney 2010*.
- [12]. Hsu, P. (2012). Examining the impact of educational technology courses on pre-service teachers' development of technological pedagogical content knowledge. *Teaching Education*, 23(2), 195-213.
- [13]. ISTE National Educational Technology Standards. (2014). Retrieved from <http://www.iste.org>
- [14]. Kay, R. (2006). Evaluating strategies used to incorporate technology into preservice education: A review of the literature. *Journal of Research on Technology in Education*, 38, 383-408.
- [15]. Kleiner, B., Thomas, N., Lewis, L., & Greene, B. (2007, December). Educational technology in teacher education programs for initial licensure (NCES 2008-040). National Center for Education Statistics, Institute of Education Sciences, U.S. Department of Education. Washington, DC.
- [16]. Koch, A., Heo, M., & Kush, J. (2012). Technology integration into pre-service teacher training. *International journal of information & communication technology education*, 8(1), 1-14. doi:10.4018/j icte.2012010101
- [17]. Koehler, M. J. & Rosenberg, J. (2014) [Graphic image of TPACK framework]. Retrieved from <http://www.TPACK.org>.
- [18]. Koehler, M., & Mishra, P. (2009). What is technological pedagogical content knowledge (TPACK)? *Contemporary Issues in Technology and Teacher Education*, 9(1), 60-70.
- [19]. Kopcha, T. J. (2010). A systems-based approach to technology integration using mentoring and communities of practice. *Educational Technology and Research Development*, 58, 1042-1629. DOI:10.1007/s11423-008-9095-4
- [20]. Kovalik, C., Kuo, C. L. & Karpinski, A. (2013). Assessing pre-service teachers' information and communication technologies knowledge. *Journal of technology and teacher education*, 21(2) 179-202.
- [21]. Kyei-Blankson, L., Keengwe, J., & Blankson, J. (2009). Faculty Use and Integration of Technology in Higher Education. *AACE Journal*, 17(3), 199-213.
- [22]. Lambert, J., & Gong, Y. (2010). 21st Century paradigms for pre-service teacher technology preparation. *Computers in the Schools*, 27(1), 54-70.
- [23]. Lei, J. (2009). Digital natives as preservice teachers: What technology preparation is needed? *Journal of Computing in Teacher Education*, 25(3), 87-97.
- [24]. Mayo, N. B., Kajs, L. T., & Tanguma, J. (2005). Longitudinal study of technology training to prepare

- future teachers. *Educational Research Quarterly*, 29(1), 3-15.
- [25]. Parette, H. P., Quesenberry, A. C., & Blum, C. (2010). Missing the boat with technology usage in early childhood settings: A 21st century view of developmentally appropriate practice. *Early Childhood Education Journal*, 37(5), 335-343.
 - [26]. Pellegrino, J., Goldman, S., Bertenthal, M., & Lawless, K. (2007). Teacher education and technology: Initial results from the "what works and why" project. *Yearbook of the National Society for the Study of Education*, 106(2), 52-86.
 - [27]. Pierson, M., & Borthwick, A. (2010). Framing the assessment of educational technology professional development in a culture of learning. *Journal of Digital Learning in Teacher Education*, 26(4), 126-131.
 - [28]. Prensky, M. (2001). Digital natives, digital immigrants part 1. *On the horizon*, 9(5), 1-6.
 - [29]. Richardson, J. D. (2012). NETS*A Scholarship: A review of published literature. *Journal of research on technology in education (International Society for Technology in Education)*, 45(2), 131.
 - [30]. Schmidt, D. S. (2009). Technological pedagogical content knowledge (TPACK): The development and validation of an assessment instrument for preservice teachers. *Journal of research on technology in education (International Society For Technology In Education)*, 42(2), 123.
 - [31]. Sutton, S. R. (2011). The preservice technology training experiences of novice teachers. *Journal of digital learning in teacher education (International Society for Technology in Education)*, 28(1), 39.
 - [32]. Teclehaimanot, B., Mentzer, G., & Hickman, T. (2011). A mixed methods comparison of teacher education faculty perceptions of the integration of technology into their courses and student feedback on technology proficiency. *Journal of Technology and Teacher Education*, 19, 5-21. Retrieved from <http://www.aace.org/pubs/jtate/>
 - [33]. Thomas, T., Herrring, M., Redmond, P., & Smaldino, S. (2013). Leading change and innovation in teacher preparation: A blueprint for developing TPACK ready teacher candidates. *Techtrends*, 57(5), 55-63.
 - [34]. Torre J. (2013) Instructional predictors of students' technology standards. *International journal of educational research & technology*. 4(3):37. Ipswich, MA.
 - [35]. Valdez, G., McNabb, M., Foertsch, M., Anderson, M., Hawkes, M., & Raack, L. (2004). Computerbased technology and learning: Evolving uses and expectations. North Central Regional Educational Laboratory.
 - [36]. Wetzel, K., Foulger, T. S., & Williams, M. K. (2008). The evolution of the required educational technology course. *Journal of Computing in Teacher Education*, 25(2), 67-71.
 - [37]. Williams, M. K., Foulger, T. S. & Wetzel, K. (2009). Preparing preservice teachers for 21st century classrooms: Transforming attitudes and behaviors about innovative technology. *Journal of Technology & Teacher Education*, 17(3), 393-418.