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Green technology and engineering sustainability in higher education

This research will explore the benefit of implementing green technology and the sustainability of e-learning in higher education with respect to design of learning materials are environmentally friendly and provides disposal strategy such as recycling and effective use of renewable energy sources. It was obvious that energy waste created lots of economic problems and has effect on resources and infrastructure available within the higher education sectors. The need for learning organizations to make good use of energy efficiency programs and cost savings as ways of reinvesting on learners and staff as means of creating employment is necessary during global economic crises and recession. The green agenda supports the United Nations (UN), World Bank, UNDP, OECD indicators for good practice and involvement of users to recognize the importance of energy efficiency and cost saving in day to day operations. It is obvious that computers are responsible for the energy waste of most organizations, especially when left on overnight. The use of strategic models and energy management mechanism may assist organizations and act as means of energy monitoring and control devices, thereby providing platform for cost savings. The concept can be factored into organizations with high number of learners and staff and each having their own computers or desktop at work/learning environment. The introduction of green technology will act as positive strategy and may result into hugh savings financially and in terms of reinvestment or reward on the learners and staff team. The effective use of energy management systems which comply with green technology requirements has become necessary in terms of efficient use of energy, cost savings and reduction of carbon footprint for sustainable environment. The Return on Investment (ROI) as computational finance model may restore organizations with hugh energy wastage without thinking of cost, environmental impact and carbon footprint/emissions. The education curriculum in developing countries complied with the commonwealth education requirements which mirror the United Kingdom provisions in HEIs. E-learning maximizes the digital information systems applications and academic achievement within the diversified nature of students' composition in Higher Education Institutions (HEIs) in the United Kingdom. The work focused on widening participation and diversity in HEIs with respect to ethnic minority and majority of students with disabilities considering the limited resources available to them. The research used informatics driven social media and virtual applications as bases for motivation and enabling students achieve positive assessment outcome using relevant research analysis tools.

Biography

Ezendu Ariwa is a Chartered Fellow of British Computer Society (BCS) and Chair of IEEE Consumer Electronics and Broadcast Technology Chapter, UK and Ireland. He is an Academic Supervisor at the University of Warwick, UK and held various academic and professional positions with many years of experience in the United Kingdom and internationally. He has achieved good collaboration with multicultural SMEs in the United Kingdom with respect to mentoring and working on joint professional development on ICT enterprise programs. He has experience of doctoral research supervision and consultancy as well as doctoral external examiner for various Universities both in the UK and internationally on information risk management and applicable computing in smart cities and healthcare. He has a good research profile and the Founding Editor-in-Chief of the International Journal of Green Computing (IJGC), Editor-in-Chief of the International Journal of Computing and Digital Systems (IJCDS), Journal of E-Technology and the Associate Editor of the International Journal of E-Politics and the Associate Editor of International Journal of Distributed Systems and Technologies (IJDST). He is Author of number of books and papers published in international journals and conference proceedings. He has also delivered keynote speeches at various international conferences. He recently published a book on green technology applications for enterprise and academic innovation.

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