Association among Selected Factors and ICT Usage among the Lecturers of Nigerian Tertiary Institutions

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Abstract:

The association between selected social, psychological and knowledge factors, namely performance expectancy, effort expectancy, social influence, knowledge of technological pedagogical content (TPACK), attitude towards ICT and ICT use has been a global topic of discussion. This paper examines the link between the selected selected social, psychological and knowledge factors and the use of ICT among the lecturers of Nigerian higher education. Thisresearch is quantitative in nature and used correlation analysis to determine the association between social influence, effort expectancy performance expectancy, technological pedagogical content knowledge (TPACK), and attitude towards ICT usage among the lecturers of Nigerian institutions. The population of the study consisted of Kano State colleges of education lecturers, Nigeria (N= 1775). The study includes all the lecturers of Kano State colleges of education, which is a total of 325 lecturers. The sample size was 232, and it was determined by using the Cochran formula. The researchers used proportionate stratified random sampling technique in the study. The questionnaire used for the collection of data was adapted from CalousteGulbenkian Foundation CGF (2016) on ICT usage, UTAUT theory by Venkatesh et al.(2003), Albirini(2006), and Technological Pedagogical Content Knowledge (TPACK) by Mishra and Koehler (2006). The statistical tool for the study is correlation analysis. The study indicated that there is a significant positive and low association between ICT usage and performance expectancy ($r = .118$, $p < .05$). ICT usage and effort expectancy ($r = .260$, $p < .05$), ICT usage and TPACT ($r = .207$, $p < .05$), attitudes toward and ICT usage ($r = .153$, $p < .05$). While there is a significant but low positive relationship between social influence and use of ICT ($r = .388$, $p < .05$). Therefore, it is necessary to improve those selected factors, such as social influence, so as to ensure the optimal utilization of the ICT in the colleges of education in Nigeria.