



702/E3

Awareness of Cyber Security Level and its Effects on System Usage Intention among Employees of Higher Education Sector with Special Emphasis to the Institute of Chartered Accountants of Sri Lanka

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When organizations move from ordinary manual work to a computerized digital environment, their sustainability is depending on the precise use of information systems and the employee's system usage intentions. Various researchers have identified different factors that have an effect on an employee's system usage intention; from this study researchers have tried to understand how system usage intention depends on the employee's cyber security awareness. This study first has analyzed how an employee's demographical data has affected breach awareness and preventive technique awareness. Later it has been analyzed how these Intervening variables have affected the employee's system usage intention in The Institute of Chartered Accountants of Sri Lanka. Correlation analysis proved that there is a significant positive relationship between cybersecurity awareness and system usage intention. Furthermore, the result proved that education qualification and gender have a positive relationship with cybersecurity awareness. According to the responses received from the staff, the majority of the staff have a good perception to be secure, but analyzing the responses received from them for the multiple-choice questions, it is clearly proved that they do not have an acceptable level of knowledge about cyber security. According to regression output, when staff breach awareness increased by one level, system usage intention increased by .356 (36%), and when preventive technique awareness increased by one level, their system usage intention is increased by 0.425 (42%). The F calculated at the 5% level of significance was 3.20. According to the ANOVA result, the calculated value of F is 26.908 and it is greater than F critical, hence the overall model was significant. Hence, it can be recommended to the Institute that they should focus on continuing development of employee awareness about the cyber security concept and technique.

Keywords: Cybersecurity, System usage, organizational risk, data security.