**Implication of Emerging Technology on Cybersecurity**

*ABSTRACT*

*Technology advancement signifies that cybersecurity threats must likewise evolve. This research looks at future directions in cybersecurity, with a focus on innovative tools and methods intended to counteract growing cyber-attacks. The use of quantum cryptography to protect communication networks, the incorporation of block chain technology for reorganized and tamper-proof data administration, the implementation of zero trust design to improve system safety, and advances in artificial intelligence (AI) and machine learning (ML) for threat recognition are important areas of focus. The study also examines the challenges pose by the advent of emerging technology and Internet of Things (IoT) security. In order to provide insights into the evolving cybersecurity landscape and to guide upcoming investigation and development efforts in the field, this study aims to assess the ethical implications of emerging technologies on cybersecurity, future trends and predictions.*

Keywords: Cybersecurity, Cyber-Attacks, Emerging technology, Quantum cryptography, Internet of Things, Zero trust Block chain.