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INFORMATION ASSURANCE FRAMEWORK FOR SECURE INFORMATION SYSTEMS IN CONTEXT TO EDUCATIONAL ORGANIZATIONS.

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### **Abstract**

Information assurance is a complex subject that deals with information operations for the protection of information and information systems. Given the current computing environment, the possibility exists for end users to have access to various classes of information (public, private, etc.) and it is the goal of information assurance strategies to not only protect the information and information systems but also to protect and ensure end user access. The proposed research aims to suggest measures to help ensure the security, and availability of information technology systems and networks and the confidentiality, integrity, proper authorization and non-repudiation of electronic information captured, maintained, and used by the institute. It attempts to highlight the vulnerabilities of organization's Information security system and extrapolates its effect on national security. Using the existing organizational structures, a framework is recommended to address information security vulnerabilities. It focuses on designing information assurance framework for information systems in educational organizations which is intended to protect the integrity of campus networks and to mitigate the risks and losses associated with security threats to campus networks and information systems resources.

## **Keywords**

Information Assurance (IA), Defense in Depth Strategy, Vulnerabilities, Authentication, Attacks.