

ABSTRACT

Utilization of information technology-related IT assets certainly has a security risk, which is one of the information security risks of IT infrastructure built and has become an asset agency or organization. Thus it is necessary to do a risk assessment of information security by identifying and measuring the impact of the failure of the IT infrastructure to the level of IT failure. Due to the rapid development of information technology makes IT assets and infrastructure will be increasingly vulnerable to security of information, especially on one of the core institutions or organizations in the field of education is in the process of academic business. Educational institutions particularly in the Pasundan University Faculty of Engineering course want to be able to align their business processes with the quality and standards that exist in the world that makes these institutions could improve the process and the result of the vision and mission that has been set.

Risk assessment with quantitative methods Failure Mode and Effect Analysis to determine the risk value based on the level of vulnerability of the asset either on the main asset, facility and asset branch on the system, and with the approach of ISO 27001: 2005 in order to adjust the proposed control control of risks can be found based on the aspects security confidentiality, integrity, and availability. By doing so the organization can know the value of risk and risk anything in order to prevent or anticipate the future risk

Keywords : Information technology assets, information technology risk, Engineering Faculty Pasundan University, assessment method Failure Mode and Effect Analysis, ISO 27001:2005