

Abstract

In the last few decades, the big cities in Indonesia are overflowed by many universities. They are competing to grow. In order to get bigger and better, the university use information technology (IT) which was implemented into Academic Information System (AIS), to facilitate the students in getting important information about lecture, in registration period or studying period. Each university has its own strategy to manage and maintain information technology that is vital for university development itself, such as defining information safety management system (ISMS) standard. However, that system is not always running well, so the audit is needed to help the management in evaluating ISMS for the university.

In this minithesis, the risk-based audit using ISO 27001 standard was done in Sekolah Tinggi Farmasi Bandung (STFB). ISO 27001 is a standard usually used for auditing information system safety in a company and is used to produce document (finding and recommendation), that was a result from safety audit in company information system. The audit result also describe the level of maturity, level of completeness of ISO/IEC 27001:2009 implementation, and area map of safety management information system in STFB, using Capability Maturity Model for Integration (CMMI). Based on risk analysis in this study, 16 objective controls and 57 safety controls that were spreaded in 4 clausul ISO 27001, were defined. The audit result concluded that the maturity level of information systems security management in STFB is 2.5. It means that the security level is still at level 2 planned and tracked but nearly approach level 3 well defined.

Keywords : ISMS, information technology, ISO 27001, risk, CMMI, level of maturity