

ABSTRACT

BUSINESS CONTINUITY PLAN PLANNING ACCORDING TO ISO 22301 STANDARD IN THE STI SECTION OF TELKOM PURWOKERTO INSTITUTE OF TECHNOLOGY

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The development of Information Technology (IT) is a major need for organizations, companies and agencies so that they are required to always adapt to information technology updates because it provides various benefits such as efficiency, effectiveness and competitive advantage which are top priorities for organizations. Control of information technology risks due to rapid technological developments can be carried out by maintaining and backing up by the IT department organization. This ITTP absorbs the use of technology-based services related to academic activity data, student data, and other important data managed by Information Systems. Data and information used as information services in ITTP still require standardization of digital services and ensuring information security to minimize risks that will occur. The management of information security risk management at ITTP does not yet have a standardized information system service such as a data center and does not yet have a site backup on the system used. The Business Continuity Plan (BCP) method relates to the process of assistance, validation, development, documentation, and testing of resources that support an organization's business processes that can continue to run conductively in the event of a disaster or incident. The purpose of this research is to measure information security standardization based on ISO 22301. Measuring the security of a company's information system uses the BCP framework with ISO 22301 standardization, namely using the PDCA Life Cycle, 10 clauses in ISO 22301, and using the Failure Mode and Analysis (FMEA) calculation. . The results of this study are based on the RPN calculation results to get five organizational assets with the highest risk, namely more than 200 or very high on IT/IS Request and License Software assets that must be analyzed. Risk management strategies consist of preventive, incidental, recovery and corrective strategies in accordance with organizational needs.

Keywords : Business Continuity Plan (BCP), ISO 22301, Information system security, Risk