

ABSTRACT

MANAGEMENT DESIGN AND INFORMATION TECHNOLOGY MANAGEMENT OF BAI COBIT 5 DOMAIN IN COAL AND GEOTHERMAL MINERAL RESOURCES CENTER

By

FAUZAN EKAPUTRA

1202152161

Nowadays, knowledge of science in the field of information systems has experienced very rapid development. Information is data that has been processed so that it is useful for related organizations. Any information can pose a risk. Information security is needed to protect information from all threats that can occur. Many organizations provide information on data assets for more effective decision making. The information management of the Coal Mineral and Geothermal Resource Center has been computerized in a structured manner but has not been well integrated with one another. This study aims to design the Information Technology Governance and Management of the IT Coal Mineral and Geothermal Resource Center. Thus, the results of the analysis produce recommendations to minimize risks to the IT assets of the Coal Mineral and Geothermal Resource Center. This research is a qualitative research. Data processing techniques using a process that is based on the BAI COBIT domain 5. The results of this study are recommendations for designing people, process and technology. The proposal in designing people using the BAI domain is the addition of two personnel to the Information Services Section, in addition to the addition of two personnel there is also an addition of descriptions and competencies that can be possessed by personnel in accordance with their duties and fields. In the process design proposal there are five Policy and SOP (Standard Operating Procedure) recommendations and in the final proposal on technology design there are six recommendations or that can support the achievement of IT Governance implementation. This research

is expected to reduce risks by implementing IT Governance at the Coal Mineral and Geothermal Resource Center.

Keywords: IT, IT Governance Geological Agency, Mineral and Coal Geothermal Resource Center, Risk Analysis, Information, and COBIT 5 BAI domain