ABSTRACT

KURNIA TRISNA SOMANTRI, Enterprise Architecture Modeling With TOGAF ADM in International Based School Pioneer-Galunggung Elementary School Tasikmalaya. Under direction of FIRMAN ARDIASYAH and SONY HARTONO WIJAYA.

Increased use of Information and Communication Technology (ICT) in an organization aims to enhance competitiveness in various fields. In this era of globalization education becomes one of the fields that make use of ICT as a medium to enhance the educational process at a primary, secondary and higher. Enterprise architecture is a way to build the information architecture of an organization that focuses on the architecture of data, applications and technology. The methodology used to compile the information is TOGAF architecture framework. TOGAF provides a method and tools to build, manage and implement enterprise architecture and maintenance. Key elements of TOGAF are the Architecture Development Method (ADM) that provides specific features for enterprise architecture development process. ADM is an important feature that enables enterprises to define business needs and build a specific architecture to meet those needs. ADM consists of stages required in building the enterprise architecture, the stages of ADM is a Preliminary Framework and Principle, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solutions, Migration Planning, Implementation Governance and Change Management Architecture. The results of this research is the business architecture, information system architecture consisting of data and application architecture, technology architecture, as stipulated in the ICT blueprint. The architecture consists of business consists of the main functions of which include the New Acceptance of Students (PPDB), Teaching and Learning (PBM), and the Release of Academic (SPA), while the support functions include Administrative Management (MTU), Infrastructure Management (MSP), the Center Computers and Language (PKB), and Financial Management (MK) are modeled using Michael Porter’s Value Chain. Data architecture consists of 46 data entities of the seven business functions; application architecture consists of 21 applications.

Keyword: Information and Communication Technology (ICT), Enterprise Architecture, TOGAF, ICT Blueprint