

ABSTRAK

Institut Teknologi Telkom Surabaya (ITTelkom Surabaya) sebagai perguruan tinggi memiliki peran yang tertuang pada Tri Dharma Perguruan Tinggi untuk menyelenggarakan pendidikan, penelitian, dan pengabdian kepada masyarakat. Tri Dharma Perguruan Tinggi merupakan kewajiban dasar yang dalam pelaksanaannya digunakan untuk meningkatkan budaya akademik yang diandalkan sesuai dengan bidangnya. Dalam melaksanakan kewajiban Tri Dharma Perguruan Tinggi, ITTelkom Surabaya memiliki dua bidang unit yaitu, unit Akademik dan Lembaga Penelitian dan Pengabdian Masyarakat (LPPM). Kebutuhan teknologi informasi selalu mengikuti perkembangan jaman, pada ITTelkom Surabaya kebutuhan terhadap teknologi informasi telah didukung oleh Yayasan Pendidikan Telkom, namun selalu terdapat pembaharuan oleh pihak eksternal seperti program yang diselenggarakan oleh Kemendikbud yaitu program magang Merdeka Belajar Kampus Merdeka (MBKM). Dengan adanya pembaharuan tersebut maka ITTelkom Surabaya harus melakukan penyesuaian terhadap strategi TI sesuai dengan perkembangan yang ada. Oleh karena itu, penelitian ini bertujuan untuk merancang arsitektur sistem informasi, mengetahui kebutuhan aplikasi dan pemetaan aplikasi yang sudah ada sesuai dengan proses bisnis ITTelkom Surabaya. Penelitian ini menggunakan *framework The Open Group Architecture Framework (TOGAF)* dengan metode *Architecture Development Method (ADM)* yang dibatasi dan dimulai dari tahap *architecture vision, business architecture, dan information system architecture*. Hasil dari penelitian ini adalah sebuah usulan atau rekomendasi kebutuhan TI organisasi pada unit bagian akademik dan lembaga penelitian & pengabdian masyarakat ITTelkom Surabaya menggunakan TOGAF ADM.

Kata Kunci: *Architecture Development Method, architecture vision, business architecture, information system architecture dan TOGAF*

ABSTRACT

Surabaya Telkom Institute of Technology (ITTelkom Surabaya) has a responsibility as defined by the Tri Dharma of higher education to execute research, education, and participate in community service. During its execution, the primary duty of the Tri Dharma of Higher Education is used to improve the academic culture of each particular discipline. The Tri Dharma of Higher Education is a fundamental obligation when put into execution, enhances academic culture that is considered to be significant in the field. As part of fulfilling the duties of the Tri Dharma of Higher Education, ITTelkom Surabaya is divided into two separate unit: academic and Institution of Research and Community Services. The needs of information technology have to continually match with the constantly evolving changes, Telkom educational foundation has supported ITTelkom Surabaya in fulfilling the information technology requirements, However, there are consistent updates from external sources, such as initiative programs by the Ministry of Education and Culture (Kemendikbud) which specifically refers to the independent internship program in collaboration with campus Merdeka. IT Strategy of ITTelkom Surabaya must be compatible with recent developments as part of this renewal. As a result, the goals of this research are to design an information system architecture, identify application requirements, and integrate current applications with ITTelkom Surabaya's business processes. This research uses framework The Open Group Architecture Framework (TOGAF) by using Architecture development method that is specified and starts from the phase of architecture vision, business architecture, and information system architecture. The results of this study include a suggestions or recommendation for IT requirements in ITTelkom Surabaya's academic units and research, and community service implementing the TOGAF ADM Framework.

Keywords: *Architecture Development Method, architecture vision, business architecture, dan information system architecture and TOGAF*