

ABSTRAK

Ni Made Rai Masita Dewi (2021) Pengukuran Tingkat Kapabilitas Tata Kelola Sistem Informasi Akademik *Online* (SION) Institut Teknologi dan Bisnis STIKOM Bali Menggunakan Framework COBIT 5

Kata-kata kunci: SION, COBIT 5, Evaluasi tata kelola TI, ITB STIKOM Bali

Pemanfaatan teknologi informasi (TI) merupakan salah satu faktor pendukung pelaksanaan rencana strategis di ITB STIKOM Bali. Sistem Informasi Akademik *Online* (SION) merupakan salah satu sistem yang digunakan oleh semua mahasiswa untuk mengatur proses perkuliahan, mulai dari jadwal perkuliahan, pembayaran, absensi, poling perkuliahan, semester pendek, pengumuman terkait perkuliahan, kerja praktek, hingga tugas akhir. Evaluasi sistem tata kelola TI dipandang perlu dilakukan pada Sistem Informasi Akademik *Online* (SION) untuk mengetahui tingkat kematangan pada sistem, karena sampai saat ini belum pernah dilakukan. Hal tersebut diharapkan mampu mengoptimalkan sumber daya TI untuk mewujudkan visi dan misi dari ITB STIKOM Bali. Pengukuran tingkat kapabilitas dilakukan berdasarkan kerangka kerja COBIT 5, yang disesuaikan dengan kondisi di tempat penelitian. Pengukuran aktivitas diturunkan dari beberapa domain pada COBIT 5 dengan proses pemetaan berdasarkan tujuan bisnis dan tujuan institusi dengan hasil proses yang berfokus pada proses EDM 03 (*Ensure Risk Optimisation*), APO 01 (*Manage the IT Management Framework*), APO 13 (*Manage Security*), DSS 05 (*Manage Security Services*) dan MEA 02 (*Monitor, Evaluate and Assess the System of Internal Control*). Pengukuran tingkat kapabilitas menggunakan PAM (*Process Assessment Model*) sebagai acuan dalam penentuan atributnya, dengan hasil tingkat kapabilitas saat ini EDM 03 dan MEA 02 berada pada level 4 *predictable process* dan APO 01, APO 13 dan DSS 05 berada pada level 3 *established process*. Akhirnya dilakukan perbandingan dengan tingkat kematangan yang diharapkan yaitu level 5 (*optimizing process*). Dari perbandingan tersebut ditemukan nilai kapabilitas, yang mana ITB STIKOM Bali telah dianggap mapan dalam pengelolaan Sistem Informasi Akademik *Online* (SION).

ABSTRACT

Ni Made Rai Masita Dewi (2021) *Governance Capability Measurement of Online Academic Information System (SION) in ITB STIKOM Bali Using COBIT 5.*

Keywords: SION, COBIT 5, IT governance Evaluation, ITB STIKOM Bali

The use of Information Technology (IT) is one of the supporting factors for implementing strategic plan in ITB STIKOM Bali. The Online Academic Information System called Sistem Informasi Akademik Online (SION) is one of the systems used by all college students to arrange their lecture process, from scheduling, payments, attendance, classes polling, short semester, lectures announcements, field classes, to final projects. The evaluation of Information Technology governance system is deemed necessary for Online Academic Information System (SION) to know the maturity of the system, because it has never been done before. It is expected to be able to optimize Information Technology resources to realize vision and mission of the ITB STIKOM Bali. Capability level measurement is based on the COBIT 5 framework, which is performed in accordance with the conditions at the research site. Activity measurement is derived from multiple domains in COBIT 5 with a mapping process based on business objectives and institutional objectives with process results focused on EDM 03 (Ensure Risk Optimisation), APO 01 (Manage the IT Management Framework), APO 13 (Manage Security), DSS 05 (Manage Security Services) and MEA 02 (Monitor, Evaluate and Assess the System of Internal Control). Capability level measurement using Process Assessment Model (PAM) as a reference in determining its attributes, with the results of the current capability level of EDM 03 and MEA 02 is at level 4 predictable process and APO 01, APO 13 and DSS 05 are at level 3 established process. Finally, the comparison with the expected level of maturity is level 5 (optimizing process). From these comparisons found capability value, which ITB STIKOM Bali has been considered well established in the management of Online Academic Information System (SION).