

ABSTRACT

Title : **Audit of Academic Information System at SMAN 3 Batusangkar Using COBIT 5.0 Framework**

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Degree Granted : **Strata 1 (S1)**

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This research aims to audit the academic information system at SMAN 3 Batusangkar using the COBIT 5.0 framework to assess its capability and effectiveness. Data were collected through interviews with related parties, direct observation of the information system process, and study of relevant documentation. The audit results were analyzed based on the domains contained in the COBIT 5.0 framework to determine the level of capability of the academic information system. The audit results show an overall competency index of 3.99, which places it at Level 3 (Defined Process). This indicates that the processes in the system have been formally defined and documented in accordance with applicable standards. Further analysis revealed that domain APO12 (Manage Risk) obtained the lowest index of 3.81, indicating that risk management has been running well, but still requires improvement in the aspects of risk evaluation and mitigation to be more sustainable. On the other hand, the MEA01 (Monitor, Evaluate, and Assess Performance and Conformance) domain achieved the highest index of 4.15, indicating that monitoring and evaluation activities of system performance have been carried out well, measured, and consistent. Overall, the academic information system of SMAN 3 Batusangkar has been able to support the effectiveness of school administration, improve the accuracy of academic data, and accelerate services to students and teachers. However, further commitment is needed from the school to improve IT governance, including the development of data security policies and the utilization of more sophisticated technology. This research is expected to be a reference for the improvement and development of academic information systems in the future. This research is expected to contribute to the development of academic information systems at SMAN 3 Batusangkar as well as being a reference for other schools that want to improve their information system governance.

Keywords: **Audit, Academic Information System, COBIT 5.0 Framework**

ABSTRAK

Judul : **Audit Sistem Informasi Akademik di SMAN 3
Batusangkar Menggunakan Framework COBIT 5.0**

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Penelitian ini bertujuan untuk mengaudit sistem informasi akademik di SMAN 3 Batusangkar menggunakan framework COBIT 5.0 guna menilai kapabilitas dan efektivitasnya. Data dikumpulkan melalui wawancara dengan pihak terkait, observasi langsung terhadap proses sistem informasi, serta studi dokumentasi yang relevan. Hasil audit dianalisis berdasarkan domain-domain yang terdapat dalam framework COBIT 5.0 untuk menentukan tingkat kapabilitas sistem informasi akademik. Hasil audit menunjukkan indeks kompetensi keseluruhan 3,99, yang menempatkannya pada Level 3 (Proses yang Ditetapkan). Hal ini mengindikasikan bahwa proses-proses dalam sistem telah didefinisikan dan didokumentasikan secara formal sesuai dengan standar yang berlaku. Analisis lebih lanjut mengungkapkan bahwa domain APO12 (Manage Risk) memperoleh indeks terendah sebesar 3,81, menunjukkan bahwa manajemen risiko telah berjalan dengan baik, namun masih memerlukan perbaikan dalam aspek evaluasi dan mitigasi risiko agar lebih berkelanjutan. Di sisi lain, domain MEA01 (Monitor, Evaluate, and Assess Performance and Conformance) mencapai indeks tertinggi sebesar 4,15, menandakan bahwa aktivitas pemantauan dan evaluasi kinerja sistem telah dilakukan dengan baik, terukur, dan konsisten. Secara keseluruhan, sistem informasi akademik SMAN 3 Batusangkar telah mampu mendukung efektivitas administrasi sekolah, meningkatkan akurasi data akademik, serta mempercepat layanan kepada siswa dan guru. Namun, diperlukan komitmen lebih lanjut dari pihak sekolah untuk meningkatkan tata kelola TI, termasuk pengembangan kebijakan keamanan data dan pemanfaatan teknologi yang lebih canggih. Penelitian ini diharapkan dapat menjadi acuan bagi perbaikan dan pengembangan sistem informasi akademik di masa depan. Penelitian ini diharapkan dapat memberikan kontribusi bagi pengembangan sistem informasi akademik di SMAN 3 Batusangkar serta menjadi referensi bagi sekolah-sekolah lain yang ingin meningkatkan tata kelola sistem informasi mereka.

Kata Kunci: **Audit, Sistem Informasi Akademik, *Framework* COBIT 5.0**