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SISTEM PENDUKUNG KEPUTUSAN DALAM PERHITUNGAN POIN PELANGGARAN SISWA MENGGUNAKAN METODE SIMPLE ADDITIVE WEIGHTING (SAW) BERBASIS WEB DI SMK MUHAMMADIYAH KEDUNGWUNI, dibawah bimbingan Dicke J.S.H. Siregar, S.Kom., M.Kom. dan Bambang Ismanto, S.Kom., M.Kom.

123 + xv halaman / 61 gambar / 39 tabel / 6 lampiran / 13 pustaka (2012-2022)

ABSTRAK

Ditemui masalah dalam proses penentuan sanksi dan jumlah poin yang dikenakan terhadap siswa yang melanggar aturan yang masih subjektif. Sehingga dibangun sistem yang membantu guru BK dalam proses penentuan jumlah poin dan jenis sanksi pelanggaran siswa menggunakan metode Waterfall melalui tahapan Requirement Definition, System and Software Design, Implementation and Unit Testing, Integration and System Testing, dan Operation and Maintenance. Sistem dirancang menggunakan Unified Modeling Language (UML) dan Lembar Kerja Tampilan (LKT). Sistem yang dibangun menggunakan framework CodeIgniter dan database MySQL sudah diuji dengan menggunakan metode White Box, Black Box, dan User Acceptance Test (UAT), yang menunjukkan bahwa fungsionalitas tampilan maupun komponen sistem sudah sesuai dengan rancangan yang telah dibangun dan sudah sesuai dengan kebutuhan pengguna. Sistem yang dibangun dapat membantu guru BK dalam proses penentuan jenis sanksi dan jumlah poin pelanggaran yang telah dilakukan oleh siswa dengan lebih objektif. Namun sistem perlu diintegrasikan menjadi sistem informasi akademik yang memiliki cakupan data yang lebih kompleks seperti data nilai, data pembayaran, dan sebagainya. Selain itu sistem juga dapat dikembangkan agar dapat diakses oleh siswa maupun wali siswa.

Kata Kunci : *Sistem Pendukung Keputusan, Poin Pelanggaran, SAW*

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DECISION SUPPORT SYSTEM IN CALCULATION OF STUDENT VIOLATION POINTS USING WEB-BASED SIMPLE ADDITIVE WEIGHTING (SAW) METHOD AT VOCATIONAL HIGH SCHOOL OF MUHAMMADIYAH KEDUNGWUNI, under guidance of Dicke J.S.H. Siregar, S.Kom., M.Kom. dan Bambang Ismanto, S.Kom., M.Kom.

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ABSTRACT

Problems encountered in the process of determining sanctions and the number of points imposed on students who violate the rules are still subjective. So that a system was built that helps guidance and counseling teachers in the process of determining the number of points and types of sanctions for student violations using the Waterfall method through the stages of Requirement Definition, System and Software Design, Implementation and Unit Testing, Integration and System Testing, and Operation and Maintenance. The system is designed using the Unified Modeling Language (UML) and Display Worksheets (LKT). The system built using the CodeIgniter framework and MySQL database has been tested using the White Box, Black Box, and User Acceptance Test (UAT) methods, which show that the display functionality and system components are in accordance with the designs that have been built and are in accordance with user needs. The system built can assist the counseling teacher in the process of determining the types of sanctions and the number of violation points committed by students more objectively. However, the system needs to be integrated into an academic information system that has more complex data coverage such as value data, payment data, and so on. In addition, the system can also be developed so that it can be accessed by students and student guardians.

Key Word : *Decision Support System, Violation Points, SAW*