

## **ABSTRACT**

**Title** : *Design Of Decision Support Sistem For Scholarship Recipients Of Public High School 2 Padang With Simple Additive Weighting (Saw) Method Based On Java Desktop*

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**Study Program** : **Information Sistem**

**Education Level** : **Strata 1 (S1)**

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*Scholarships are tuition assistance and living expenses provided to students who come from economically disadvantaged families. The scholarship should ideally be given to the right party by considering several predetermined assessment criteria so that there are no mistakes in receiving scholarships. In selecting the scholarship award at SMAN 2 Padang, it is still done manually so it is felt that it is not effective because of the large number of students who must be recorded and takes a lot of time. therefore, a sistem is needed that can help the work of the vice student and other school officials in making decisions in awarding scholarships so as to increase effectiveness and efficiency in data collection of students who are entitled to scholarships. Selection of scholarship recipients can be done by filling in student and parent data based on predetermined criteria, after all the criteria have been filled in, then proceed with the calculation process using the Simple Additive Weighting (SAW) method, often also known as the weighted sum method and the basic concept of the SAW method is to find the weighted sum of the performance ratings on each alternative on all attributes, the final result is obtained by performing the ranking process for each alternative so that the largest value is selected as the selected scholarship recipient.*

*Keywords: Scholarship, Decision Support Sistem, simple additive weighting, java, Education*



## **ABSTRAK**

**Judul** : **RANCANG BANGUN SISTEM PENDUKUNG KEPUTUSAN PENERIMA BEASISWA SMA NEGERI 2 PADANG DENGAN METODE *SIMPLE ADDITIVE WEIGHTING* (SAW) BERBASIS JAVA DESKTOP**

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Beasiswa merupakan bantuan biaya pendidikan dan biaya hidup yang diberikan kepada siswa yang berasal dari keluarga kurang mampu secara ekonomi. Pemberian beasiswa idealnya diberikan kepada pihak yang tepat dengan mempertimbangkan beberapa kriteria penilaian yang telah ditentukan sehingga tidak terjadi kesalahan penerima beasiswa. Dalam menyeleksi pemberian beasiswa di SMAN 2 Padang ini masih dilakukan secara manual sehingga dirasa hal tersebut tidak efektif dikarenakan banyaknya siswa yang harus didata dan memakan banyak waktu. Oleh karena itu, dibutuhkan suatu sistem yang dapat membantu pekerjaan wakil kesiswaan dan perangkat sekolah lainnya dalam memberikan keputusan dalam pemberian beasiswa sehingga dapat meningkatkan efektivitas serta efisiensi dalam pendataan siswa yang berhak mendapatkan beasiswa. Penyeleksian penerima beasiswa dapat dilakukan dengan cara melakukan pengisian data siswa dan orang tua berdasarkan kriteria yang telah ditentukan, setelah seluruh kriteria telah terisi maka dilanjutkan dengan proses