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**SISTEM PENDUKUNG KEPUTUSAN PENENTUAN LOKASI KKN PADA
DESA – DESA DI KABUPATEN BATANG MENGGUNAKAN METODE
AHP (STUDI KASUS : BIDANG LITBANG BAPPELITBANG)**, dibawah
bimbingan Ichwan Kurniawan, S.Kom., M.Kom. dan Wachid Darmawan,
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ABSTRAK

Bidang Litbang mempunyai tugas dan wewenang dalam perizinan penelitian, pengajuan magang, dan kegiatan Kuliah Kerja Nyata (KKN) di Kabupaten Batang. Bidang Litbang mengalami permasalahan dalam penentuan lokasi KKN. Permasalahannya yaitu penentuan lokasi KKN yang dilakukan di bidang Litbang belum secara sistematis. Dari permasalahan yang didapat maka dibutuhkan sebuah Sistem pendukung keputusan yang diharapkan dapat mempermudah pengambil keputusan dalam melakukan penentuan lokasi KKN. Sistem pendukung keputusan ini menggunakan salah satu metode dalam pengambilan keputusan yaitu metode Analytical Hierarchy Process. Pembangunan sistem menggunakan metode Waterfall yang terdiri dari beberapa tahapan diantaranya adalah Communication, Planning, Modelling, Construction, dan Deployment. Sistem dirancang menggunakan Unified Modeling Language (UML) dan Lembar Kerja Tampilan (LKT), serta diuji dengan menggunakan metode pengujian White Box, Black Box, dan User Acceptance Test (UAT). Hasil pengujian melalui metode White Box menunjukkan bahwa sistem mampu melakukan proses analisa menggunakan metode Analytical Hierarchy Process sesuai dengan yang seharusnya tanpa kesalahan (error). Sedangkan pada pengujian Black Box ditunjukkan bahwa komponen maupun tampilan dari sistem yang telah dibangun sudah sesuai dengan rancangan yang telah dibuat, serta pada pengujian akhir menggunakan metode User Acceptance Test (UAT) diketahui bahwa sistem sudah sesuai dengan harapan dan kebutuhan pengguna akhir.

Kata Kunci : *Sistem Pendukung Keputusan, penentuan, KKN, Analytical Hierarchy Process*

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DECISION SUPPORT SYSTEM FOR DETERMINING THE LOCATION OF KKN IN VILLAGES IN BATANG DISTRICT USING THE AHP METHOD (CASE STUDY: RESEARCH AND DEPARTMENT OF

BAPPELITBANG), under guidance of Ichwan Kurniawan, S.Kom., M.Kom. dan Wachid Darmawan, S.Kom., M.Kom.

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ABSTRACT

The Research and Development field has the duties and authorities in research licensing, apprenticeship submissions, and Community Service Program (KKN) activities in Batang Regency. The Research and Development field experienced problems in determining the location of the Community Service Program. The problem is that determining the location of the Community Service Program carried out in the field of R&D has not been done systematically. From the problems obtained, a decision support system is needed which is expected to facilitate decision makers in determining the location of KKN. This decision support system uses one of the methods in decision making, namely the Analytical Hierarchy Process method. System development uses the Waterfall method which consists of several stages including Communication, Planning, Modeling, Construction, and Deployment. The system was designed using the Unified Modeling Language (UML) and Display Worksheet (LKT), and was tested using the White Box, Black Box and User Acceptance Test (UAT) testing methods. The test results using the White Box method show that the system is capable of carrying out the analysis process using the Analytical Hierarchy Process method as it should be without error. Whereas in the Black Box test it is shown that the components and appearance of the system that has been built are in accordance with the design that has been made, and in the final test using the User Acceptance Test (UAT) method it is known that the system is in accordance with the expectations and needs of end users.

Keywords: *Decision Support System, determination, KKN, Analytical Hierarchy Process.*