International Journal of Society Reviews (INJOSER) e-ISSN: 3030-802X
Vol. 1 No. 12 2024, pages: 1060~1067

SELECTION OF LABORATORY ASSISTANTS USING THE WEIGHTED PRODUCT METHOD TO SUPPORT DECISION MAKING

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Abstract

This research aims to develop a decision support system (DSS) for selecting laboratory assistants using the Weighted Product (WP) method to support more effective decision making. The WP method was chosen because it is able to handle a number of different criteria and weights in the selection process. This study will identify the relevant criteria for the selection of laboratory assistants and assign weights to each criterion based on its importance. Next, the system will implement the WP method to calculate the total score for each assistant candidate based on the predetermined criteria and weights. The research results showed that K-6 with a score of 0.1284 got the highest ranking results and was followed by second place, namely K-8 with a score of 0.1269 and in third place with K-1 with a score of 0.1251. It is hoped that research can help and contribute to increasing efficiency and accuracy in decision making regarding the selection of laboratory assistants.

Keywords: Weighted Product, Lab Assistant, Decision Support System

INTRODUCTION

In a laboratory environment, the selection of qualified assistants is very important to maintain the smooth operation and success of the laboratory. The selection process often involves a number of criteria that must be considered, such as technical skills, reliability, personality and previous experience. However, in the face of these various criteria, decision making can become complicated and time consuming. To overcome this problem, an effective approach is to use a decision support system that can help screen and evaluate prospective laboratory assistants more systematically. One method that can be applied in a decision support system is to use the Weighted Product method which allows the user to determine the relative weight of each criterion and produce a total score for each prospective assistant based on the value of these criteria.

Researchers obtained several other journal references including: [1] Making it easier to select prospective assistants administratively so that the process of selecting assistants is faster and better systemized [2] Providing ranking results in the form of the best alternative values in selecting laboratory assistants. [3] Can help lecturers to quickly select computer laboratory assistants. [4] Assist in selecting prospective laboratory heads according to candidates who must have the required skills. [5] The method is very suitable to be implemented because the results are in accordance with the expected targets with objective assessment. And the last reference [6] These results quite good and can effectively help decision making in the best alternative as a candidate for a computer laboratory assistant.

In this context, this research aims to develop a decision support system to assist the selection of laboratory assistants using the Weighted Product method. Through the application of this method, it is hoped that the decision-making process regarding the selection of assistants can be carried out more efficiently and accurately.