

**ABSTRACT**

***SIMULATION OF DECISION SUPPORT SYSTEM FOR  
SELECTION OF ASSISTANT LABORATORY AND  
PROFFESION USING DATA MINING METHOD USING C4.5  
ALGORITHM***

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*Every university has a goal to produce high quality and highly competitive students. To achieve these objectives, Information Systems Study Program has 3 learning methods namely, class lectures, Practicum, and expertise groups. To do the learning methods required stakholder commonly called the Laboratory Assistant and Profession Members. However, in the recruitment process, these stakeholders are still subjectivity and the difficulty in determining applicants that fit the criteria. In order to improve quality and excellent quality, every university is required to be able to maximize the processes that can improve the quality and quality. This research was conducted to discuss the C4.5 Algorithm method implemented in the recruitment process of Laboratory Assistants and Professional Members. Data is collected through collecting files and interviews conducted with professional coaches and laboratories. From these simulations, 49 patterns for the old laboratory assistant recruitment data were obtained, 9 patterns for the new laboratory assistant recruitment data and 8 patterns for the profession recruitment data. From each of these data. The decision determinant factors that most influenced the graduation recruitment were the interview attributes for the recruitment data. Laboratory Assistant and Motivation Letter for the recruitment of Profession Members*

*Keyword: Decision Tree, Algorithm C4.5,*