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**Abstract**

Every Telkom University student is required to plan elective courses to be taken starting from the fourth semester. There are many students who have difficulty choosing elective courses according to the expertise group. Therefore, a recommendation system that can be used to predict the selection of elective subjects at Telkom University in the S1 Informatics Department Faculty of Informatics. The final task is to study and implement the K-means and Apriori methods to provide recommendations for the selection of elective courses according to the expertise group. Experiments were carried out using 660 S1 Informatics Engineering students data in 2013. The experimental results showed that the K-means Algorithm can group students into expertise groups and Apriori can produce rules that can be used as recommendation for the choice of elective subjects.

**Keywords:** recommendation, K-means, Apriori.

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