ABSTRACT

Course Learning Outcome (CLO) is an achievement standard set by universities for each learning objective in each course. In achieving the CLO standard, institutions need to evaluate and evaluate the ongoing lectures. The existence of data that has not been patterned regarding the actual lecture results requires a conversion process to produce knowledge that can be useful in helping decision making.. In this final project, there are problems regarding the difficulty of teachers to find solutions between learning and achieving CLO. It is necessary to have a process of converting data into information and a process of converting information into knowledge to find out the essence of the available data.

This final project uses the 5C4C knowledge conversion method. The 5C4C method is divided into process stages, namely the process of converting data into information using 5C (Contextualized, Categorized, Calculator, Corrected, and Condensed) and the process of converting information into knowledge using 4C (Comparation, Consequences, Connections, and Conversations). In the Calculated process, the K-Means Clustering method is included to be able to group students based on the CLO scores obtained at the PTI MK and Calculus IA.

The result of this final project is a dashboard design that can display graphs that are useful for monitoring the achievement of CLO using Tableau software. The graphs in the dashboard contain student scores, evaluations by students, and student cluster results based on the CLO scores of MK PTI students and Calculus IA.

Based on the results of data analysis and processing, it was found that the process of converting data into information, then the process of converting information into knowledge can be used as evaluation material and evaluation evaluation and help decision making for study programs and lecturers of the Constitutional Court.

Keywords— 5C4C *Method, Dashboard, K-Means Clustering, Knowledge Conversion*