

ABSTRACT

Optional course is one of a factor that have a great deal in the success of finishing the final project and also graduate well. Choosing the best optional course for every student then become an essential thing, to avoid the mistake in choose wrong optional course or a tudent drop the course in the middle of a semester.

In this final project, writer implemented knowledge based recommender system method to help a student choose their optional course, by giving some recommendation that generated by system. In knowledge based method, student input their preference or constraint to help system decide which optional course is suitable to recommenf to student. And in the optional course itself, writers use Multi Attribute Utility Theory (MAUT) to describe characters of each optional course.

Thing that need to considerate is the validity of the information use in the system, by that reason then writer use interview and questionnaire method to collect information from lecture and student respectively, as knowledge. Every recommender system is aimed to give a prediction of options to user personally, so user can consider the recommendation results in order to decide to take an optional course. As in this final project, writer hopes this knowledge based recommender system could give a good recommendation to be considered by student in choosing optional course.

Keywords: Recommender system, knowledge based, constraint, MAUT, optional course