ABSTRAK

**PENGELOMPOKAN HASIL EVALUASI PEMBELAJARAN
MENGGUNAKAN METODE KLASTERING K-MEANS
STUDI KASUS DI FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS SANATA DHARMA**

Pusat Pengembangan dan Penjaminan Mutu Pembelajaran Universitas Sanata Dharma (P3MP) setiap akhir semester melaksanakan evaluasi pembelajaran matakuliah-matakuliah. Evaluasi dilakukan dengan kuesioner yang diisi mahasiswa. Kuesioner memuat 18 pertanyaan dengan skala penilaian antara1 sampai 7.

Dalam tugas akhir ini, penulis mengelompokkan data hasil evaluasi pembelajaran matakuliah-matakuliah di prodi-prodi Fakultas Sains dan Teknologi pada semester gasal 2008/2009 dan semester genap 2008/2009 kedalam kelompok-kelompok dengan hasil evaluasi yang mirip. Pengelompokan dilakukan dengan metode *K-Means clustering*. Metode *K-Means clustering* mengelompokkan data-data berdasarkan jarak tiap data dengan centroid.

Hasil pengelompokan selanjutnya dapat dimanfaatkan untuk penentuan langkah tindak lanjut bagi prodi maupun P3MP guna meningkatkan kualitas pembelajaran di USD secara berkelanjutan.

ABSTRACT

***CLUSTERING THE RESULTS OF LEARNING EVALUATION
USING K-MEANS CLUSTERING METHOD
A CASE STUDY IN THE FACULTY OF SCIENCE AND TECHNOLOGY
OF SANATA DHARMA UNIVERSITY***

At the end of each semester, The Center of Development and Learning Quality Assurance of Sanata Dharma University evaluates each course learning. Evaluation was performed using questionnaires filled in by students. The questionnaire consist of 18 questions with a rating scale between 1 up to 7.

In this thesis, the author cluster the results of learning evaluation of all departments in the Faculty of Science and Technology of Sanata Dharma University into groups with similar evaluation results. The data was taken from odd and even semester 2008/2009. The clustering was done by using K-Means clustering method. K-Means clustering method groups data based on the distance of each data with the centroid.

The clustering results can be used to determine the following steps for each departments as well as for The Center of Development and Learning Quality Assurance of Sanata Dharma University to continously improve the quality of teaching in Sanata Dharma University.