Development of Microteaching Model for Improving Pedagogical Content Knowledge of Students

by Ali Mahmudi, Wahyu Setyaningrum, Murdanu

ABSTRACT

This research is aimed to develop micro teaching model to improve pedagogical content knowledge of valid, practical, and effective student of mathematics teacher. The model consists of pattern / scheme of micro teaching implementation, micro teaching guide, observation instrument or micro teaching device assessment, and micro teaching practice assessment, assessment sheet or self-evaluation of micro teaching student. Kevalidan viewed from the suitability of the model theoretically justified or judged by the expert (judgment validity). Practicality in terms of the ease of the model is implemented in the practice of micro teaching. While effectiveness in terms of student learning micro teaching.

This research is a development research with ADDIE model, which consists of several stages of research, namely Analysis (Analysis), Design (Design), Development (Development), Implementation (Implementation), and Evaluation (Evaluation). In the Analysis phase will be analyzed Curriculum Prodi Mathematics Education, especially to identify the competence of microteaching. At this stage also analyzed the characteristics of students, such as students' perceptions of microteaching. Also at this stage theoretically studied the competence of prospective teachers to be developed. At the Design stage will be prepared format or prototype microteaching model and research instrument. At the Development stage microteaching model will be prepared in accordance with the prototype that has been prepared. At this stage the microteaching model is validated and revised in accordance with the validator's results or recommendations. In Implementation stage will be tested or implemented microteaching model in microteaching lecture. At Evaluation stage will be evaluated microteaching model based on trial. Furthermore, the model can be implemented more widely.

The subjects of this study are students microteaching participants and lecturers microteaching on Mathematics Education Study Program FMIPA UNY. The research was conducted in February - July 2018. The instrument of this research is microteching model validation sheet, student profile instrument, instrument assessment instrument instrument, and microteaching practice assessment instrument, and practicality instrument of micoteching model.

The main outline of this study is planned in the form of scientific articles in scopus indexed journals. While the additional output is a micro teaching model to improve the competence of pedagogical content knowledge that is valid, effective, and practical

Kata Kunci: *model, microteaching, pedagogical, content, knowledge*