

IMPLEMENTATION OF LESSON STUDY IN INNOVATIVE CHEMICAL EXPERIMENT LEARNING IN HIGH SCHOOL FOR CHARACTER DEVELOPMENT AND SCIENCE PROCESS SKILLS OF STUDENTS

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ABSTRACT

The Chemistry Education Study Program FMIPA UNY has a vision, namely to realize a quality-based Chemistry Education Study Program and excel in the development of learning and research to produce Bachelors of Chemistry Education who meet pedagogic, professional, personality, social, globally competitive competencies. In the needs assessment process, one of the inputs from stakeholders (schools and chemistry teachers) is that it is hoped that there will be support from lecturers to develop learning and chemistry experiments in schools. For this reason, the Lesson Study team of the Chemistry Education Study Program, Faculty of Mathematics and Natural Sciences, UNY, has carried out a Lesson Study with a team of chemistry teachers at SMA Negeri 2 Klaten.

The results of the implementation of this Lesson Study: (1) The teaching performance of teachers and the learning performance of students in Lesson Study on the implementation of innovative chemistry experiments was observed by observers through observation sheets, which increased from the first cycle to the second cycle. (2) Implementation of Lesson Study improves the science process skills and character of the students of SMA N 2 Klaten. Aspects of science process skills in general showed an increase in the average score of both categories in the aspects of predicting, interpreting data, and organizing data. Aspects of observing and communicating show the average score is very good. Aspects of character development, students showed very good scores on aspects of curiosity, wanting to understand, and finding answers, as well as solving problems. In the aspect of developing logical methodology and original creativity, it shows an increase in the average score of both. (3) The learning products produced in the implementation of Lesson study with the implementation of this innovative chemical experiment are (a) Student Worksheets covering innovative chemistry experiments for SMA Class X, XI, and XII with an inquiry model and contextual approach. This innovative chemistry experiment can be used by teachers in chemistry subjects, chemical technology crafts, entrepreneurship, as well as for KIR (Adolescent Scientific Group).

Keywords : Lesson Study, Innovative Chemistry Experiment

Kata Kunci: *Lesson Study, Innovative Chemistry Experiment*