

PEDAGOGICAL CONTENT KNOWLEDGE ABILITIES OF MATHEMATICS EDUCATION'S STUDENTS IN MICRO LEARNING COURSES

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ABSTRACT

The aims of this study was to describe the students' ability of mathematics education in processing teaching materials and how to teach mathematics in micro learning as well as student understanding related to pedagogical content knowledge. The study used the ex post facto method. The ex post facto method was appropriate for analyzing and exploring the material mastery ability of the pedagogic component or students' mathematics teaching skills. The sample of this study was 108 students in semester 6 of mathematics education study program from three different universities, namely 39 students of UIN Sunan Kalijaga, 31 students of Universitas Negeri Yogyakarta (UNY), 38 students of Universitas PGRI Yogyakarta (UPY). Data collection techniques used in this study were observation or observation techniques, pedagogical tests, and documentation. The instrument used was valid and reliable with a reliability estimate of 0.713. Different test on the results of each pedagogic component in three universities using Analysis of Variance (Anova). Anova analysis results show that there was a difference between UNY, UPY and UIN Sunan Kalijaga students with a value of $F = 12,649$ and a significance of 0.000 with the highest average being UNY students.

Kata Kunci: *pedagogical content knowledge, mathematics, students*