

# THE IMPROVEMENT OF BLENDED LEARNING COURSES ON SOLUTION CHEMISTRY AND ANALYTICAL ELECTROCHEMISTRY AT MAGISTER PROGRAM OF CHEMISTRY EDUCATION

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## ABSTRACT

The courses of solution chemistry and analytical electrochemistry at magister program of chemistry education are eligible at even semester, providing solution and electrochemistry description with in depth reviewed. The improvement of blended learning courses is one of efforts to upgrade the learning quality by integrating the development of information technology, especially the internet with classroom learning, which allows being accessed by students.

The improvement of blended learning courses on solution chemistry and analytical electrochemistry at magister program of chemistry education, Yogyakarta State University consists of synchronous and asynchronous (online) lectures. In one semester, it has sixteen times classroom with one addition for final exam. The classroom should have a combination of synchronous and asynchronous lectures with four classroom asynchronous lectures, minimal, at initial phase. Thus, the asynchronous lectures were held on fourth until seventh of the classroom, which is adjusted to the research schedule and learning process.

Kata Kunci: *Solution Chemistry and Analytical Electrochemistry, blended learning, Chemistry Education, synchronous, asynchronous*