

## ABSTRAK

**Lolita Rizkivany:** Pengembangan Sistem Pembelajaran *Flipped Classroom* Berbasis Inkuiri Terbimbing Pada Materi Reaksi Redoks dan Elektrokimia Untuk Kelas XII SMA/MA

Pandemi Covid-19 yang melanda ratusan negara di dunia termasuk Indonesia. Pandemi Covid-19 berpengaruh terhadap berbagai bidang kehidupan termasuk bidang pendidikan, hal ini menyebabkan peralihan sistem pembelajaran ke pembelajaran online. Selain itu, kurikulum 2013 menuntut pembelajaran berpusat pada peserta didik. Oleh karena itu, penelitian ini dilakukan bertujuan untuk mengembangkan sistem pembelajaran *flipped classroom* berbasis inkuiri terbimbing pada materi reaksi redoks dan elektrokimia dan menentukan tingkat validitas dan praktikalitas sistem pembelajaran yang dihasilkan. Jenis penelitian yang digunakan yaitu *Research and Development* (R&D) dengan model pengembangan Plomp. Instrument penelitian berupa lembar validasi dan angket praktikalitas. Berdasarkan hasil analisis angket validitas diperoleh nilai sebesar 0,86 dengan kategori valid. Hasil analisis uji praktikalitas diperoleh persentase respon peserta didik sebesar 86% dengan kategori sangat praktis dan persentase respon guru sebesar 93% dengan kategori sangat praktis. Hasil penelitian ini menunjukkan bahwa sistem pembelajaran yang dikembangkan valid dan praktis digunakan sebagai solusi dalam pelaksanaan pembelajaran secara online.

**Kata Kunci:** *Inkuiri Terbimbing, Flipped Classroom, Reaksi Redoks dan Elektrokimia*

### Abstract

The Covid-19 pandemic has surged several of countries around the world, including Indonesia. The Covid-19 pandemic has affected various fields of our life including education sector. It leads to the change of the learning system from offline learning to online learning. In addition, the 2013 curriculum applies the learner-centered learning. Therefore, this study is aimed to develop a guided inquiry-based flipped classroom learning system on a chemistry school material about redox and electrochemical reactions and to measure the level of validity and practicality of this type of learning system. This research is conducted Research and Development (R&D) with the Plomp development model. The research instruments are in the form of validation sheets and practicality questionnaires. Based on the results of the analysis for the validity of the questionnaire, it can be obtained value of 0.86 in the validity category. Furthermore, the results of the analysis for the practicality test can be obtained that 86% in the very practical category from the students and 93% in the very practical category from the teachers. The results of this study is to indicate that the learning system developed is valid and practical and to indicate that it can be used as a solution in the implementation of online learning.

**Keywords:** *Guided Inquiry, Flipped Classroom, Redox and Electrochemical Reactions*